

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1266:

GAATTCGGCC	AAAGAGGCCT	ACCGCCCATC	GCGCCGGCGC	GACCCGCAGG	AGCGTAGAGA	60
GCGCGGGACT	AGAGTGCAGA	GCTCCGGGAC	GTGGATCGGA	GCCGGCGCGA	TGGGCGGAGA	120
GCAGGAGGAG	GAGCGGTTTC	ACGGCATGTT	GCTGGCCATG	GCTCAGCAGC	ACGAGGGCGG	180
CGTGCAAGGAG	CTTGTGAACA	CCTTCTTCAG	CTTCCTTCGA	CGCAAAACAG	ACTTTTTTCAT	240
TGGAGGAGAA	GAAGGGATGG	CAGAGAAGCT	TATCACACAG	ACTTTCAGCC	ACCACAATCA	300
GCTGGCACAG	AAGACCCGGC	GGGAGAAGAG	AGCCCGGCAG	GAGGCCGAGC	GGCGGGAGAA	360
GGCGGAGCGG	GCGGCCAGAC	TGGCCAAGGA	AGCCAAGTCA	GAGACCTCAG	GGCCCCAGAT	420
CAAGGAGCTA	ACTGATGGAG	AAGACTCGAG				450

(2) INFORMATION FOR SEQ ID NO:1267:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 459 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1267:

GAATTCGGCC	AAAGAGGCCT	AGCTACTAAG	GCAGGTGCAG	CATCAATGAT	TCACTACATG	60
GTTCTGATAT	CAGCTCGCTT	GGTACTACTC	ACTTTGTGTG	GATGGGTACT	TTG...GACC	120
CTCGTCAATC	TCTTTCGAAG	CCATTTCAGT	CTCAATCTCC	TTTTCTTGG	CTACCCGTTT	180
GGTGTTTATG	TTCCTCTTTG	CTGTTTTTCAT	CAAGATAGTA	GAGCACATCT	TCTTCTCACA	240
GACTACAACT	ATGTGGTTCA	GCACGAGGCA	GTAGAGGAAA	GTGCCTCGAC	TGTGGGAGGC	300
TTGGCCAAAT	CCAAAGACTT	TCTCTCCTTG	TTGCTGGAGT	CGCTAAAAGA	ACAGTTTAAT	360
AATGCCACAC	CCATCCCCAC	CCACAGTTGT	CCCCTATCTC	CAGACCTCAT	TCGCAATGAA	420
GTAGAATGTC	TGAAAGCAGA	TTTCAACCAC	CAACTCGAG			459

(2) INFORMATION FOR SEQ ID NO:1268:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 432 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1268:

GAATTCGGCC	AAAGAGGCCT	AGAGTTTTCA	TAAGCCCGGC	TGGTGTTTAA	AACGTGTTTT	60
GGCTTTGTTC	ATTTTATGGT	GTTGGTGTG	GTATTGGTGG	TCATGTACTG	GCATGTAAGA	120
TTTCTTTTCT	CTTTCCTCT	TCTCTCTGCT	TCTACATTCT	GTTCAATTGAG	GCTTCCAAC	180
GAATATGAGA	GGAACGGGAG	ATATGAGGGC	TCAAGTCGCA	ATGTATCTGC	TGAGCAAAAA	240
GATGAAAACA	AAGAAGCAAA	GCCTCGATCC	CTACGCTTCA	CCTGGAGCAT	GAAAACCACT	300
AGTTCAATGG	ATCCCGGGGA	CATGATGCGG	GAAATCCGCA	AAGTGTGGA	CGCCAATAAC	360
TGCGACTATG	AGCAGAGGGA	GCGCTTCTTG	CTCTTCTGCG	TCCACGGAGA	TGGGCACGCT	420
GGTAACCTCG	AG					432

(2) INFORMATION FOR SEQ ID NO:1269:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 510 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1269:

GAATTCGGCC	AAAGAGGCCT	ACCCTGAACT	ACTCCAGTGT	GCACCTGCAC	AACCTCCATG	60
GTGCCTCTGG	AATTGGGTAG	CATGGTGGCC	CTGCTGATGA	GCACCCCAAG	GGGCCATTGG	120
GGGACCTCTG	AGAATCTCTG	CCAGAGCAGT	TTGGGTGGGA	GTCGATTAAG	GAAAGAAGCA	180
GCAAGATCCA	GGACTTTTAA	TCTTAAAAGA	GAGAGAAATG	CTGGCAGATG	AACATTCTGA	240
GGATAAGGAG	CCTGAGTAAT	TGAGCGATTA	GGGATGGAGA	CATACGATTG	AATTCTAGAC	300
CTGCCTCGAG	TAGCCAATCA	AGCTGTGTCT	GGCTGTGCAC	TATCCAGGCC	TCCACATTCT	360
GTGACAAACT	AACAGGGCCG	GCTCCTGTCA	CTCCTGTTCT	CGCCAGCGGG	TTTTACCCTG	420
AAGGTGACTC	AGGCCTTCTC	TTTGCCCTAG	ATCGTGGGGA	TCATCACACG	GCACAACCTC	480
ACCTATGAAT	TTCTGCAGGC	GTAGCTCGAG				510

(2) INFORMATION FOR SEQ ID NO:1270:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 388 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1270:

GAATTCGGCC	AAAGAGGCCT	ACGCATCCCC	TGCAGCTCTT	GCCCCCAGAC	GTTTGGTACC	60
AACTCGAAAC	TGCGCTTGCA	CCGGTTAAGG	GTACATGACA	AAACACCTAC	CCACTTCTGT	120
CCACTTTGTG	ACTATAGTGG	CTACCTTCGC	CATGACATCA	CTCGTCATGT	CAACAGCTGC	180
CACCAAGGCA	CCCCAGCCTT	TGCTTGCTCC	CAGTGTGAAG	CCGAGTTCAG	CTCAGAGACA	240
GCACTTAAGC	AGCATGCTCT	GCGCCGACAC	CCCGAGCCTG	CACAGCCTGC	CCCTGGCTCT	300
CCTGCAGAGA	CCACTGAGGG	CCCCCTGCAC	TGTTCCCGCT	GTGGGTTGCT	GTGCCCCCAGC	360
CCTGCCAGCT	TACGAGGACG	GCCTCGAG				388

(2) INFORMATION FOR SEQ ID NO:1271:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 407 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1271:

GAATTCGGCC	AAAGAGGCCT	ACAGAACTGT	GCCATATTCT	TAAACATCAT	ACAATATTGC	60
CTTTCAGGCA	TGAAAAGCAA	AGGGAATTAT	TTGTTCAATT	GATAGCGCTT	TAGTAATGTA	120
AGTGGATACA	CTTAGGGCTA	GCCCTCTGGC	TTGTTACCAT	GGTAAGCTAG	GGGAATATAG	180
TTGAGGGGTC	TGCAGCAGAG	CTTGGAGAGG	ATCTGGGATG	TTAAATTCTC	AAGTACTTGA	240
ACTTAGCAAC	AGGACTTGGT	CCCATCCACA	CCCTGCTCTC	CACCCCAGCT	GGAAATAAAT	300
AGTGCTGACT	ATGGAGGCAA	AGAGAAACAT	ACTTGTAAGC	TTTTTTGTTT	GGATTTTCTT	360
TGGGGTTTCC	TTTTTGCTTT	TTCTGAACTG	GAGGGTGAAA	TCTCGAG		407

(2) INFORMATION FOR SEQ ID NO:1272:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1272:

```

GAATTCGGCC AAAGAGGCCT ACATAAATCA AAAATTTCTG TGAAGATGGG AAATAAGGCC      60
AAGATTGCAA AATGTCCTTT AAGAACAAAA ACTGGGCACA TTCTAAAATC AACACAAGAT      120
ACTTGATTG  GGAGTGAAAA ACTTTTGCAA AAGAAGCCAG TTGGTTCAGA AACATCACAG      180
GCAAAAGGTG AAAAAAATGG AATGACTTTT TCATCCACTA AGGATTTATG TAAACAATGT      240
ATAGATAAAG ACTGTCCTCA TATCCAGAAA GAGATTTAC  CTGCAACCCC TAATATGCAG      300
AAGACTAGAA ACACCCTCGA G                                     321

```

(2) INFORMATION FOR SEQ ID NO:1273:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 205 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1273:

```

GAATTCGGCC AAAGAGGCCT ACGAGAACTT CCTTTTCATC TGAATCTTCG TCAAACCTCTC      60
TCTCAGAGCC TTCCTCATCT AACACTTTTT CAGAGCCGTC ATCTTCAAAT TCGGAGTTTT      120
CAGAGTCATT TTCTTCTAAC TCTTTGTCAA GAACATTTTC ATGAAGCTCC TTTTCAGAAC      180
CTTCCTCGTC CAAATCTTTC TCGAG                                     205

```

(2) INFORMATION FOR SEQ ID NO:1274:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1274:

```

GAATTCGGCC AAAGAGGCCT ACTCAATACT GAGGCTGATT GGTCGTTTAG GCCAATTGGG      60
TTTGAAAGAA GGATTTCAT CTGCTGTGAA AAATATTAGT TCGGTTATTG GTATGTTTAT      120
ACAGCATGCT CACGATGAAG ATATACCATG GGGTATACAG TTAGCAGCCG TGTATGCTCT      180
TTGTGACTTG AGTCCCAGCA ATCCAGCAGA AATTTCCAAG ATCCTGGAAG CTTGGCGGAG      240
AGAGGCCTCC AAAAGCGTTC CGTCTGCGAT TGTCAGCTGC CTAGAGGAAG TCAGTGCCCT      300
GAGCACAGAG GAGCTTGGCT GACCTGGGAT GCCACTGAGG CTTGAGAAGT GCCTTGACAC      360
ATTTTGAACA CAAATAGTTT GATCAGCTTT CAGAATACAA AGGGAGGTTT CAAAACAAAA      420
AGACATAAAA TAGATAAAAAG CAGACTCGAG                                     450

```

(2) INFORMATION FOR SEQ ID NO:1275:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 255 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1275:

GAATTCGGCC AAAGAGGCCT AAAGCAACAG GAAAGGATAA ATTCACAGAG GGAAGAGATA	60
GAAAGACAAC GGAAATGTT AGCAAAGCGG AAACCTCCTG CCATGGGTCA GGCCCTCCT	120
GCAACCAATG AGCAGAAACA GCGGAAAAGC AAGACCAATG GAGCTGAAAA TGAAACGTTA	180
ACGTTAGCAG AATACCATGA ACAAGAAGAA ATCTTCAAAC TCAGATTAGG TCATCTTAAA	240
AAGGAGGCTC TCGAG	255

(2) INFORMATION FOR SEQ ID NO:1276:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 367 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1276:

GAATTCGGCC AAAGAGGCCT AACAAGATTG ACCGTGAATG GTTCACTGTT GAAACTCTGT	60
GATGGGTACT TGAGAATTTA TTATATTATT ATGCCTATAT TGCAGATATT TGAAGTTTCC	120
CAATAAAATG TTTAAAATAG TGGCAGGGGG CAAGAAGAAA AGGACCACTC AATTTAAAGA	180
AAAAATAATT TTAAGACACA CAGAGAATAG GAAGAGGGAA AAATTGGTGA GGCAAGAGAA	240
AGGCAGCAGG TGGGGCCATA TCAAGAGTGA TTCTTCAGCA GGTGAGGCGT GATACCCCG	300
CAAAAGTAGA GGGTTGGCTG TAAGATAGGG GGCACAGATG GCTATAATGC AAGGGAAGGC	360
GCTCGAG	367

(2) INFORMATION FOR SEQ ID NO:1277:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 624 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1277:

GAATTCGGCC AAAGAGGCCT ACTCAGAAAC AAAGCCAAAA TTAAGTTCAT CATTAAAAAG	60
CCCGAAATGT TTGAGACGGC GATTAAGGAG AGCACCTCCT CTAAGAGCCC TCCAGAAAA	120
ATAAATTCAT CACCCAATGT TAATACTACT GCATCAGGTG TTGAAGACCT TAACATCATT	180
CAGGTGACAA TTCCAGATGA TGATAATGAA AGACTCTCGA AAGTTGAAAA AGCTAGACAG	240
CTAAGAGAAC AAGTGAATGA CCTCTTTAGT CGGAAATTTG GTGAAGCTAT TGGTATGGGT	300
TTTCTGTGA AAGTTCCCTA CAGGAAAATC ACAATTAACC CTGGCTGTGT GGTAGTTGAT	360
GGCATGCCCC CGGGGGTGTC CTTCAAAGCC CCCAGCTACC TGGAAATCAG CTCCATGAGA	420
AGGATCTTAG ACTCTGCCGA GTTTATCAAA TTCACGGTCA TTAGACCATT TCCAGGACTT	480
GTGATTAATA ACCAGCTGGT TGATCAGAGT GAGTCAGAAG GCCCCGTGAT ACAAGAATCA	540
GCTGAACCAA GCCAGTTGGA AGTTCAGCC ACAGAAGAAA TAAAAGAGAC TGATGGAAGC	600
TCTCAGATCA AGCAGAACCT CGAG	624

(2) INFORMATION FOR SEQ ID NO:1278:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1278:

```

GAATTCGGCC AAAGAGGCCT ACCCAAATCC CATTAGATA AATTGAGGTT CATTTTTCAC      60
ATAGACTTGC AATTTTGTAGA CACCACATTT TTTTATAGT AACAGCCTCA TTGCCTGTA      120
CAATAACTAA TAATACAGTA TTTCATAGGT ACATTGTATG TGCACAGGAA ATTTTCTTT      180
AAATCTTAAA AGCCTTTAAT AAACGGGATA TTTTAATATT TTAATGTTAC TACATTTAAA      240
AAATAGTGTT TTCCTACAAA ATTTTCTGTA TTCAGTAATA CTCGAG                      286

```

(2) INFORMATION FOR SEQ ID NO:1279:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 227 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1279:

```

GAATTCGGCC AAAGAGGCCT ACTCATCATT AGCTGAAAGT TTGAGAGCTG CAGCAGAAGC      60
GGCTGTATCA CAGACTGGAT TTAGTTATGA TGAAATACT GGACTGTATT TTGACCACAG      120
CACTGGTTTC TATTATGATT CTGAAAATCA ACTCTATTAT GATCCTTCCA CTGGAATTTA      180
TTACTATTGT GATGTGGAAA GTGGTCGTTA TCAGTTTCAT TCTCGAG                      227

```

(2) INFORMATION FOR SEQ ID NO:1280:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 486 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1280:

```

GAATTCGGCC AAAGAGGCCT ACCCGTGCGC TCTACAAATA GTTCCGTGAG AAAGATGGCC      60
GGGAACTCGA TCCTGCTGGC TGCTGTCTCT ATTCTCTCGG CCTGTCAGCA AAGTTATTTT      120
GCTTTGCAAG TTGGAAAGGC AAGATTAAAA TACAAAGTTA CGCCCCCAGC AGTCACTGGG      180
TCACCAGAGT TTGAGAGAGT ATTTCCGGCA CAACAAAAC GTGTGGAGTT TTATCCTATA      240
TTCATAATTA CATTGTGGAT GGCTGGGTGG TATTCAACC AAGTTTTCG TACTGTCTG      300
GGTCTGGTGT ACATATATGG CCGTCACCTA TACTTCTGGG GATATTCAGA AGCTGCTAAA      360
AAACGGATCA CCGGTTTCCG ACTGAGTCTG GGGATTTTGG CCTTGTGAC CCTCCTAGGT      420
GCCCTGGGAA TTGCAACAG CTTTCTGGAT GAATATCTGG ACCTCAATAT TGCCAAGAAA      480
CTCGAG                      486

```

(2) INFORMATION FOR SEQ ID NO:1281:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 430 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1281:

```

GAATTCGGCC AAAGAGGCCT AGACAAATTT CCTTTCATTG CTTCCAGCCG TGTATTTTAA      60
AGTAATTAAC CTTAATTTAT AAATTTTAT ATCAAACCTGC CTTTAACTT TTAGAACTGG      120
CAGGAACAGC CTTATCCCTG GGCTCCTAAT AGTTCTCCAT TTAATCAAAA TTCATCCATC      180
AGGTTCCAGT GTTAAATCAT CTTTAAATTG GGAGTTACAT TCTGGTTAAT AGTTTATATA      240
TTCGCCTCCT CTAATAGTTT TTACCACAGG GATCTCGACT CCATTTTTC TGA CTCTATT      300
ATTGCTGGCA TCGGATTCT GCGGGGATGG CTTAACGCGG CCCTGCCTCT CTGGCCTCTG      360
CTGGTCGCCT CTTTGTCT TGGTGGTCTC ATTAATTCCT GAGAAGAGTT ATCCTTCCTC      420
CTCACTCGAG                                     430

```

(2) INFORMATION FOR SEQ ID NO:1282:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1282:

```

GAATTCGGCC AAAGAGGCCT AATCCCCTTC TGCATGTTCC CTTCTGCAG GTCTGATGGG      60
GCCATCCCAC CTGCTGGGG AGCACAGCTT GCCCTCCCTC CCCTCCTTCT CTCTGGCGT      120
TGCCTGTGG GTGCCATCGG AGCAGTCCTC ATTACTCCC ACTTTGCCC AACTTCTGCT      180
GCTGTGACCA GTCGCATACA CGTGGACACC GTGGGGACTG CCCCTCCATA CAGCTCCTCT      240
GTAAGCTTAG GACCAAGGCT GCCTCTCCAG TCTCCCTGGC CCATGCCTGC CCCGGCATCC      300
TCCGCCCCAG CTACACTGGC CCCCAGTCTC GAG                                     333

```

(2) INFORMATION FOR SEQ ID NO:1283:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 269 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1283:

```

GAATTCGGCC AAAGAGGCCT AGGACGTTGG TGTGAGGTT AGCATACGTA TCAAGGACAG      60
TAAC TACCAT GGCTCCCGAA GTTTTGCCAA AACCTCGGAT GCGTGGCCTT CTGGCCAGGC      120
GTCTGCGAAA TCATATGGCT GTAGCATTCT TGCTATCCCT GGGGGTTGCA GCTTTGTATA      180
AGTTTCGTGT GGCTGATCAA AGAAAGAAGG CATACGCAGA TTTCTACAGA AACTACGATG      240
TCATGAAAGA TTTGAGGAT GAGCTCGAG                                     269

```

(2) INFORMATION FOR SEQ ID NO:1284:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 339 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1284:

GAATTCGGCC AAAGAGGCCT AGAGCGTCAA TTATATCAAT TTGTCCCAGA TTTGGATGAG	60
CTGTGAGGAT GTAACACAAG GCTGGAGGAG GCAGATGAGT TTTATCTCT TCACAGGGCT	120
GGTCGCGGCC AGGTGTTTTC AGAGGTATCG CTGGGGGCCA CAGGGTGTCA ATCAAACCTGA	180
AAATCCCCGC TGTCTTCCT CTGGTGACTT TCTGTAGAAC CTCATTCCC ACCAGGCTGC	240
AAGACTTCCC TTCCAAGTGT CTTGCCTTCG ACATGGTGAA CTCCAAGTGC ACTTCACCGA	300
ACATTCCACA GGCATCTTGT ACCAGAAGGC AGGCTCGAG	339

(2) INFORMATION FOR SEQ ID NO:1285:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 496 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1285:

GAATTCGGNN AAAGAGGNCT AGAAATCANA AAGCATGCCT GTGCAATTGA ACAAAGGGCT	60
AAGTTCTAAA AACATCAGTT CATCTCCAAG CGTTGAGAGT TTGCCTGGAG GAAGAGAATT	120
CACTGGCTCT CCACCTTCAT CTGCTACTAA AAAAGATTCC TTTTGTAGCA ACATCTCACG	180
TTCTCGCTCA CACAGCAAAA CTATGGGCAG AAAAGAATCT GAAGAAGAAT TAGAAGCCCA	240
AATTTCTTTC CTTCAAGGGC AGTTGAATGA CCTGGATGCC ATGTGCAAT ACTGTGCAAA	300
GGTGATGGAC ACTCATCTTG TAAATATTCA AGATGTGATA TTACAAGAAA ATTTGGAAAA	360
AGAAGATCAA ATTCTGGTTT CCCTGGCAGG ATTAAAACAG ATCAAAGACA TTCTAAAAGG	420
TTCCCTGCGT TTTAACCAGA GCCAGCTAGA GGCCGAAGAG AACGAACAGA TCACCATTGC	480
GGACAACTCA CTCGAG	496

(2) INFORMATION FOR SEQ ID NO:1286:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 319 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1286:

GAATTCGGCC TTCATGGCCT AGCAGAAGCT AAGAAGTGT TTTAAATAAA TTTTAAAGT	60
AAATAAGTTA TAATGCATAG GTTAGCCCAT TCATTAATGA TTTTCAGTTT CAAGTGTAAT	120
TATTTCTTAA TGATTACTAG TTGATCAGTG TAATGAAAAC ATTGAGTAGA CAACTAAAT	180
GCACAGTATA AATGTGACAT AAACACTGGT TTCAATTTGT CTCAAGAAAA AAGAAAAAAA	240
AAAGGCCCCCT GCAATGGCAA AGAGTGGCCA CTATTGGGGT AATTCAAACA ACCCACTGTA	300
ATACAGGAAA GCACTCGAG	319

(2) INFORMATION FOR SEQ ID NO:1287:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 261 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1287:

```

AAAATGGAGA AGTTACTGGC TGGAGAAGAT GGGACAAGTG AACGAAGGAA AAGCATCAAA      60
ACCTACAGAG AAATTGTTCA AGAAAAAGAG CGGAGAGAGA GAGAGCTGCA TGAAGCATAT      120
AAGAACGCTC GGTCCCAGGA GGAGGCAGAG GGGATCCTTC AACAGTACAT TGAGAGGTTC      180
ACCATCAGTG AGGCTGTTCT CGAACGCTTG GAGATGCCAA AAATTCTGGA AAGAAGCCAT      240
TCAACAGAGC CAAAACTCGA G                                     261

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(2) INFORMATION FOR SEQ ID NO:1288:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1288:

```

GAATTCGGCC TTCATGGCCT ACTCTGAAGA TATTTATAGC TCTCTTAGAG GTGTCCTGA      60
AGCAATCCAG AATTTCAGCT TCCGTAGCCA AGAAGATATG AATGAGCCAT TGAAAAGGGA      120
TTCTAAAAAA GATGATGGCG ATTCAATGTG TGGTGGTCCT GGGATGTCTG ACCCAAGAGC      180
AGGAGGTGAT GCTACTGACT CAAGTCAAAC AGCTCTTGAT AATAAAGCTT CATTGCTCCA      240
TTCAATGCCT ACTCACTCCT CTCCACGCTC TCGAG                                     275

```

(2) INFORMATION FOR SEQ ID NO:1289:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 139 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1289:

```

GCGATTGAAT TCTAGACCTG CCTCGAGAAC GCCGGGGTCC ATCATTAGCA GTCCTCACAT      60
GCGCCGGAGA GCTACATCAA CACGAGAGTG TCCATCTCGC CCACACCAGA CTATGCCCAA      120
CTCATCTTCC CCCCTCGAG                                     139

```

(2) INFORMATION FOR SEQ ID NO:1290:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 358 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1290:

GAATTCGGCC	AAAGAGGCCT	AATAAGTTTG	ATTAAGCTTG	CAGACATTAA	GCTTTTCTAG	60
CAGCTGGTGT	GTGCAGAGGC	AGATGGCTCT	CTGGTTCCAG	GACTACCTAC	AATATAGAGA	120
AATTTTCTCT	ATTCCAGTCA	ATTCATCATG	GGTAAGAATA	GTCCATTTTG	GTAGTGTTAT	180
TTTCATCGTTT	ACAATCTACC	TATGGGTAGT	GGCTGGTAAC	TGCCTGGATG	TTGACATTTC	240
ACAAAGGCCA	TACTTAACCA	CACTTTTATT	TCTATTTGTG	CGATGCCTTG	GAGTAGTTTC	300
CCAAAGTGAT	TTTGAGTGTG	GAAGAAATGG	TATTGTCCCC	GAACAGCTGG	TGGTCGAG	358

(2) INFORMATION FOR SEQ ID NO:1291:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 139 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1291:

GAATTCGGCC	TTTCATGGCCT	AGAGGATCCT	AATGAAATAC	CTGAAACATA	TATTGGCATT	60
TATCAATGGC	TCAAATCTTC	ATTTATCTCT	GGCCTTAACC	CTGGCTCCTG	AGGCTGCGGC	120
CAGCAGAGCC	CAGGTCGAG					139

(2) INFORMATION FOR SEQ ID NO:1292:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 442 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1292:

GAATTCGGCC	TTTCATGGCCT	ACTATCAGGA	AGTGATTCGT	GGAGAGGGGA	TTTTACCTGA	60
TGGTGGAGAA	TACAAACCCC	CTTCTGATTC	TTTGAAAAGC	AGAGACTATT	ACACGGATTT	120
CCTAATTACA	CTGGCTGTGC	CCTCGGCAGT	GGCACTGGTC	CTTTTCTAA	TACTTGCTTA	180
TATCATGTGC	TGCCGACGGG	AAGGCGTCAT	CCAACCTGGT	CATCAGAGTG	CTATTAGAA	240
ATCTACCAAG	GAGCTTCGAG	ACATGTCCAA	GAATAGAGAG	ATAGCATGGC	CCCTGTCAAC	300
GCTTCCTGTG	TTCCACCCTG	TGACTGGGGA	AATCATACCT	CCTTTACACA	CAGACAACCTA	360
TGATAGCACA	AACATGCCAT	TGATGCAAAC	GCAGCAGAAC	TTGCCACATC	AGACTCAGAT	420
TCCCCAACAG	CAGACTCTCG	AG				442

(2) INFORMATION FOR SEQ ID NO:1293:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1293:

GAATTCGGCC	TTCATGGCCT	ACATGAATTA	TCTGTGAGTT	GGTTAAAGGT	AATATTGGTT	60
AGCATCAAGA	ATAGGAAGCT	ATTAGTTTTC	AATCAAGAAT	AAGCTCAAAT	TTGGTCTAAA	120
TCTTAATTTT	AAGCTGGGTA	ATCATTGATT	TACAATTTT	TTCTTGGTGT	CACATTTCTT	180
CCAAAACAAT	AATCAATGAA	GCCTTTCCCA	CCCTGTGCCT	TTGCTCTCGA	G	231

(2) INFORMATION FOR SEQ ID NO:1294:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1294:

GAATTCGGCC	TTCATGGCCT	ACTCTGCTAA	CTTCCTGCCT	CTATGTCTTT	CCCCACCTAC	60
CTCCTCTCCC	CATTCACACT	CCTGCGTGAC	CTCATCCATT	TACCTGCCTT	CAATTAGCAT	120
CCATACGTTT	CTCCTTTCTC	AATATAAGTC	CCCAGCTGAG	ACTCTGTTTC	TGAAATCCAG	180
ATTTTATTTT	CCAATTCTAC	TGAACAAACT	CAGTCTAAAG	CCAAGCCCAT	TATCTTCTCC	240
TATAAGCCTG	CATCTTTTCT	TTTCTTTCTT	TCTTTTTTTT	TTTTTAACAG	AGGTTAATGG	300
CATTCAACAT	CTACCAAGC	ACCAGGGAGT	TAGATTCAGA	ACGGATGGAC	TCGAG	355

(2) INFORMATION FOR SEQ ID NO:1295:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 429 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1295:

GAATTCGGCC	TTCATGGCCT	AGGCTAACTG	TTATTTGCAT	CTTACAGCTC	AGAAAACAAG	60
CATGGTGAGA	TAAGGAAACT	TTACTAAGGT	CACATAACTA	GTAAGTGGTG	GAGCCAGCGT	120
TGAAACTCAG	GAAGTCTGTA	CACAACTGGG	AGGGAAGGCT	AATATTTGAA	ATGATAGACT	180
CAACATTCAA	TATTTTCAGTA	TCGATGAGCT	CTAAGTTGAT	AGAGCTATGT	GTA AAAACCC	240
TGCATTTAAT	ATTAAGAAAT	CATTGGCAGA	AGAGTAAGAG	AGGGCTTTGG	TCAAGTAAGC	300
TGAGTGCATA	AGAAAACCTCT	GGCATTGAG	GTGTCCTTAG	CTCCAGATGC	TTTGGTAGGG	360
CAGAGTGTAT	CCATGGAGGT	ACCATGAGCT	ACCATGGAGG	TAGCTCAGAG	AGGAAAGGGA	420
AACCTCGAG						429

(2) INFORMATION FOR SEQ ID NO:1296:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 406 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1296:

CTCGAGCTGT	TCTGTAAATA	CCTGGTGCTA	ACATCCCATG	CCGCTCCCTC	CTCACGATGC	60
ACCCACCGCC	CTGAGGGCCC	GTCCTAGGAA	TGGATGTGGG	GATGGTCGCT	TTGTAATGTG	120

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CTGGTTCTCT TTTTTCCTCT TTTCCCCTCT ATGGCCCTTA AGACTTTCAT TTTGTTCAGA      180
ACCATGCTGG GCTAGCTAAA GGGTGGGGAG AGGGAAGATG GGCCCCACCA CGCTCTCAAG      240
AGAACGCACC TGCAATAAAA CAGTCTTGTC GGCCAGCTGC CCAGGGGACG GCAGCTACAG      300
CAGCCTCTGC GTCCTGGTCC GCCAGCACCT CCCGCTTCTC CGTGGTGACT TGGCGCCGCT      360
TCCTCACATC TGTGCTCCAT GCCCCTAGGC CTCTTTGGCC GAATTC                        406

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(2) INFORMATION FOR SEQ ID NO:1297:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 639 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1297:

```

GAATTCGGCC AAAGAGGCCT ACGCCCGCCA ACACGCCTGG GTAATTTTTT GTATTTTATAG      60
TAGAGACGGG GTTTCACCGT GTTAGCCAGG GTGGTCTTGA TCTCATGATC TCGTGATCCA      120
CCTGCCTCGG CCTCCCAAAG TGCTGCGATT ACAGGCAAGT GCCACCGCAC CCGGTGACAC      180
TGTTGCTCTT AAGCAGAAGC AAAATCAAAA GGCAGACAGG ACTCAAAGAA TGGTTCTAAA      240
CCTAAAAGTA CTAAGGCCTC TAGGAACTAT GATGATGACA ATTACTGTGC AATTTATATC      300
ATGCTGAATT TTAGTAAAAC CCCTGGCAAA CCACTCTCAC TTGGTGACAC TCCGTCCACA      360
GCACGGGGCC ACAGCATAGT GGATCAGTAC AACTTTCCTG GACAGCCTTG CTACCTGTAC      420
ACTCTTATGG ACTCAATTCC ACTTCAATGT ATTCGTTCTA GAGGTAAATG GACATGTGAA      480
CACAGATTCA CAGGCAAAGA TGTTTATATG CACCACTGTC TTGATGTTCA AGAAAATGGA      540
ACTGGTTACA TGCATGTGAT TAGCTATATA ATGTAACGTG ATTCAGCCCC TAAAAAATGT      600
AGGCCTCTTT GGCCGATTGA ATTCTAGACC TGCCTCGAG                                639

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(2) INFORMATION FOR SEQ ID NO:1298:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 606 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1298:

```

GCGATTGAAT TCTAGACCTG CCTCGAGTCC AACGGCATCG ACGTGTACCC CCAGAAGGAA      60
TTTGATGAGG ACTCGGAGGA CCGGCTGGTG AACGAGAAGT TCCGGGAGAT GATCCCATTT      120
GCTGTGGTGG GCAGTGACCA CGAGTACCAG GTCAACGGCA AGAGGATCCT TGGGAGGAAG      180
ACCAAGTGGG GTACCATCGA AGTTGAAAAC ACCACACACT GTGAGTTTGC CTACCTGCGG      240
GACCTTCTCA TCAGGACGCA CATGCAGAAC ATCAAGGACA TCACCAGCAG CATCCACTTC      300
GAGGCGTACC GTGTGAAGCG CCTCAACGAG GGCAGCAGCG CCATGGCCAA CGGCGTGGAG      360
GAGAAGGAGC CAGAAGCCCC GGAGATGTAG ACGCCACCCT GCCACCCCC GGGATCCTGC      420
CCCCAAGTCA TTTCCGTCCC CCCCCCAGGC CCTCCTCCCA CGGAGTGGA AGACTGGCTG      480
AGGCCTAGCT CTCTAAAACG GTGGGGGAGG GGGGAGCGCC CTGAGAGAGG CATTCTACTA      540
ACCCACCCC AATCACCCCT ATTTTACTC TTTTACTTT CGGAATTGGA AAGAACGACA      600
CTCGAG                                606

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(2) INFORMATION FOR SEQ ID NO:1299:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1299:

GAATTCGGCC	AAAGAGGCCT	AGGAGTGATG	TTCATTTTGG	GATTTCAGG	GTGCATTGGA	60
GCGCTACGGG	AAAACACTTT	CCTTCTCAAG	TTTTTTTCTG	TGTTCTGGG	AATTATTTTC	120
TTCTCTGGAGC	TCAGTCCGG	AGTTCTAGCA	TTTGTTTTCA	AAGACTGGAT	CAAAGACCAG	180
CTGTATTTCT	TTATAAACAA	CAACATCAGA	GCATATCGGG	ATGACATTGA	TTTGCAAAAC	240
CTCATAGACT	TCACCCAGGG	ACTCGAG				267

(2) INFORMATION FOR SEQ ID NO:1300:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 414 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1300:

GAATTCGGCC	AAAGAGGCCT	AGTGTTTTCC	AATCAAGTTA	ATAAATATCT	GTCTTCGTAC	60
CAGGAAAAAT	TCAATATTAT	TTTAAAGGAG	AAAAATAAG	AATGTATTGG	TAAAATGCTT	120
TCTCTCACTT	CGAAATATCT	TAGTGAACAA	GAACACTGAC	ATAGAATTAA	AATTCTATGA	180
ACAGCCATAA	CCAAAGGAAT	CTCATTTAGT	GAATATTTAT	GTCCAGTAAC	TGCAACCCAC	240
ACTTAGAGCT	ATCCTTTTGC	TTAAAAACAA	AAATTTGGGC	CTTAAGAAGT	GATTAATATC	300
AGGCAAAAAT	AAATTATACT	TTGTTTATT	TATTCAGGGC	CTTGCTCTGC	TGCCCAGGCT	360
GGACTGCAGT	AGTGCAATCA	TAGCTCACTG	CATCCTTGAA	TTCCTGGGCT	CGAG	414

(2) INFORMATION FOR SEQ ID NO:1301:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1301:

GAATTCGGCC	AAAGAGGCCT	AGTGAAGTTT	ACTGTGATTC	TATGGAACAA	TTTGACAAG	60
AAGAGTCTTT	AGACAGCTTT	ACGTCCAACA	ATGGACCATT	TCAGTATTAC	TTGGGTGGTC	120
ATTCCAGTCA	ACCCATGGAA	AATTCTGGAT	TTCTGAAGA	TATTCAAGTA	CCTCCTGGAA	180
ATGGCAACAT	TGGGAATATG	CAGGTGGTTG	CAGTTGAAGG	AAAAGGTGAA	GTCAAGCATG	240
GAGGAGAAGA	TGGCAGGAAT	AACAGCGGAG	CACCACAAC	CGAG		284

(2) INFORMATION FOR SEQ ID NO:1302:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 193 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1302:

GAATTCGATT GAATTCTAGA CCTGCCTCGA GCCTGTGCGA GAAAAGTGAA CGCCAGTCTA	60
AAAAAAAAAAAA AAAAATCTAA AAGAAGCCAA AAATCCACTT GTAATGAGAT TCATAGACCC	120
CTTATTTATA CAACTCACAT ATTTGAATTT TTACATATTG AATTTTCTTT TAAAGGGGTG	180
GAGGGGTCTC GAG	193

(2) INFORMATION FOR SEQ ID NO:1303:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1303:

GAATTCGGCC TTCATGGCCT AGGGATACAG CAACTATTTT ATCAATTGTT TGTATTTCCC	60
TTTAAGGTAA CATTTTAAAT GAAATGTATT ATATTTTAAAT CTATCCTTTT CCTTTGTTTT	120
TGTTCTTATT ATCTCTTCTG ATATATAACC AAAAAATGAA AAAATCTGTA CACTTGGTGT	180
TTGATTTACC TAAGCACCTA GTTAATTTAA TCTTTGTAAC ACTTTGGATG GTTAACTTAA	240
CCTTTACTCA AGTTGGTTTT TGTTTTGTTG AAAATGACTT ACTTGGTGGA ACCACTACTC	300
TCGAG	305

(2) INFORMATION FOR SEQ ID NO:1304:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 416 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1304:

GCAGCGAGCA GTATACCAGC AGCAGCAAGC GAAAGGAAGA GTTTGCTGAT ATGTCAAAAAG	60
TTCATTCAGT GGGAAGCAAT GGGCTTCTGG ACTTTGATTC AGAATATCAG GAGCTCTGGG	120
ATTGGCTGAT TGACATGGAG TCCCTTGTGA TGGACAGCCA CGACCTGATG ATGTCAGAGG	180
AGCAGCAGCA GCATCTTTAC AAGCGATACA GTGTGGAAT GTCCATCAGA CACCTGAAAA	240
AGACGGAGCT GCTTAGTAAG GTTGAAGCTT TGAAGAAAGG TGGCGTTTTA CTACCAAATG	300
ATCTCCTTGA AAAAGTGGAT TCAATTAATG AAAAATGGGA ACTGCTTGGG GTATTGTCAT	360
TTTTATTACT GTTTGTAGGT TATGTGTACA TTTTGTGCGT AGTGAAGTCA CTCGAG	416

(2) INFORMATION FOR SEQ ID NO:1305:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 345 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1305:

GAATTCGGCC	TTCATGGCCT	ACCAATGTCC	TGCACATTGC	CAGACTTCCA	AACAGGTACA	60
AGTTCCCATC	TGTTCTGCAA	TAGATGAAAG	CAAGTCACAG	TCCCAGGGC	TACCAGTGTA	120
ATTTCTCAAG	TGGCCAAGTT	ACCTGGCTTC	ATGGCTTGAC	CTGCTGTGTT	CTTTTGGAAA	180
TGGAGAATGC	CTGAGGGCTG	TCTCTAACAG	AAGGGTATGT	GGCAGTATAT	TACAGAATTT	240
ACAAGAAGCA	AGGTGCAAAT	GAATTACATT	GAATTTTATT	GTTAAGAAGA	GATGATTTAA	300
AATTTGGTAT	TTAACACAT	AAACGACTTT	GGGGCCCAAC	TCGAG		345

(2) INFORMATION FOR SEQ ID NO:1306:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 209 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1306:

GATTTCTCTC	AGCTTTTATT	TGTTTGAAAA	ATTTTAAAT	TCACCTTCTT	TTTTGAAAGA	60
TTTTTACTGA	TTATAGAATT	CTAAGTAGTT	TATTCTTCTA	GGACTGTGAA	CATATAATTC	120
TACTGTCTTC	TGGCATTAT	AGTTTCTTTA	TTTTATTTT	TATTGAAAAA	CATTTTCTTT	180
GAGACATGGT	CTCACTCAGA	ATACTCGAG				209

(2) INFORMATION FOR SEQ ID NO:1307:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 251 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1307:

GAATTCGGCC	TTCATGGCCT	AAGCTTTTGC	TTTTTAAATA	ACTGTATAG	CTAAAACTT	60
GACGGTGAAA	AGCTCTCAGA	TCAAAGCTGA	TCCTTCTGTC	AGTAATGATT	CTAAAAATAA	120
GCAAGATTTT	AATGGGGAAT	ATATTTTATT	TCATTCTTAT	CTCAAACCTA	GGTACTGTGG	180
TCGTTTTGAG	TCATTTTCGA	GGCATTTCAT	ATGTGCCTCA	GGCCACATCC	AACCTCTCCC	240
CAGAACTCGA	G					251

(2) INFORMATION FOR SEQ ID NO:1308:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1308:

GAATTCGGCC	TTCATGGCCT	ACCTGACTCT	TGAGATACTG	ACTGGAAGAT	AGACTGTTTT	60
GTTCCACCTG	ATTGTATGGG	AGAAATTTT	GACCTTAGAA	AGTGGAATG	AGGTTGCTAT	120
GGAAACTGGT	AATTCTGCTG	CCACTCATAA	ACTCTTCTGC	AGGTGATGGT	CTTTAAGCC	180
GTCCTATTTT	TACTCAGGAG	CCACATGATG	TCATTTTCTC	TTTGGATTTA	TCAAAATCTG	240
AGGTCATCCT	GAATTGTGCT	GCTAACGGTT	ACCCTTCGCC	TCATTATAGG	TGGAAGCAAA	300

ATGGCACAGA ACTCGAG

317

(2) INFORMATION FOR SEQ ID NO:1309:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 412 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1309:

GAATTCGGCC	TTCATGGCCT	ACACAGTATC	ACTAAAAGAT	TTTCATTCCG	AAGATCACAT	60
TAGTAAAAAG	ACTGAGGAAG	TGGTTCTGAA	AGATGGAAGA	ATTGAAAGAC	TAAAGTTAGA	120
GCTTGAAAGG	AAAGATGCTG	AAATCCAGAA	GCTGAAAAAT	GTAATCACTC	AATGGGAGGC	180
AAAGTATAAG	GAAGTAAAGG	CAAGAAATGC	ACAATTATTG	AAAATGCTTC	AGGAAGGTGA	240
AATGAAAGAT	AAGGCAGAAA	TACTTCTGCA	AGTTGATGAA	TCACAAAGTA	TCAAGAATGA	300
GCTCACTATT	CAGGTGACTT	CACTTCATGC	TGCATTAGAA	CAAGAAAGAT	CTAAAGTGAA	360
AGTATTACAA	GCAGAGTTAG	CCAAATACCA	GGGTGGCAGA	AAAGGGCTCG	AG	412

(2) INFORMATION FOR SEQ ID NO:1310:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1310:

CTCGAGTGTG	GTGGTATGTG	AATTATATCT	CAGTAAAGCC	ATCACAGGGC	AGAAGAAAAA	60
GAGAAAAGAA	AAAGAAAACC	TTCGAGGAAG	TCCAACAAAA	AACATGAGGA	AGAAAAGGTG	120
AGAGCCTGAG	GATCCACACA	GCAGGTACAG	CAACTAACTG	ACAGAAATTC	TAGAGCCAGA	180
CAACAATGAC	TAATCAAAC	AACCTCAAAA	CAATGATTA	GGCCATGAAG	GCCGAATTC	239

(2) INFORMATION FOR SEQ ID NO:1311:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1311:

GAATTCGGCC	TTCATGGCCT	ACAAGGAAGC	ACAAGGAGAA	AATTATGATG	AAATGGAGCA	60
AAACAGGTAA	AGAGAGGGT	CAGAGAAGTG	AATGTGGGCC	TTGATGCTGA	AGCCATTGGA	120
GGGTTTTCTG	TTGAGGAGGA	GTATGGGAAT	GATATGATCT	GACTTATGTT	TCAAAAAGTG	180
TACTCTAGCT	GCTTTGTGGG	AAATATNGGA	GGGAGAGAGC	AGAATCAAGG	AGGCCATTTA	240
AAATGCCATT	GCAATATCC	AAGAGAGGCG	GACTCGAG			278

(2) INFORMATION FOR SEQ ID NO:1312:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 247 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1312:

```

GAATTCGGCT TCATGGCCTA ATCACATATG GTAGAGATT TATACAGAAT TTTAAAATGT      60
GGCATTAAAA AAACCTGTTC CATGGAAAAC TGCTTTCAGA GATTTTAAAT AAGTGTTCCT      120
CTCACATAGG AACCTAAGCT TCTCAGAGCT TTTAATAGGC TTCTAACAGG CTAATAGTCA      180
AGGCCGTGAC CCAAGAAGGG ATATACTTCA CAGTGTTTTT CACAAATATT TCACCCAGAG      240
GCTCGAG                                         247

```

(2) INFORMATION FOR SEQ ID NO:1313:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1313:

```

GAATTCGGCC TTCATGGCCT AGGGTCTTAG CTTTGGCTCT CTTGCAAAG TTATTTCTAG      60
TTAATTCAAT ATGCAGAAGG TATAGGGGTT AGTCCTTGCT ATATTATGCT TGGTTATAAT      120
TTTTCATCTT TCCCTTGCGG TACTATATCT ATTGCGCCAG GTTCCTCTG TCTCAAAAAA      180
AAAGAAGTTA CTTCCAAGAC AGACTTTTAA GATGTAACCA GCACAAAGCA ATGTCAGGGA      240
GGAGTGATAC ATGACAATAA ATGAGTCAGA TGAGCAAGAA GGCCCCAGAA CCCATGCCCC      300
CAGGACTCGA G                                         311

```

(2) INFORMATION FOR SEQ ID NO:1314:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 261 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1314:

```

GGGGAGCTGC AAACGCCCCG GATACTGTCA GAGATGGAGA AAGGTATGAC AGGAAGAGCA      60
GATCAAGAAG ACGGGAACAG CACGAGGCAC TGGGAGCTGC AAACGCCCCG GATACTGTCA      120
GAGATGGAGA AAGGTATGAC AGGAAGAGCA GATCAAGAAG ACGGGAACAG CACGAGGCAC      180
TGGGAGNTGC AAACGCCCCG GATACTGTCA GAGATGGAGA AAGGTATGAC AGGAAGAGCA      240
GATCAAGAAG ACGAACTCGA G                                         261

```

(2) INFORMATION FOR SEQ ID NO:1315:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 326 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1315:

```
CTCGACTTGC ACGAGGAGTG GCAGGATTAT CTGCAGAGGG ACCATTGGGA CAGCTAGTAA      60
GGCCAGGTGC TCTTTAGGCA CCCCTTCTTC CACCAGCTTC AGGCCTGTCA CAGCATCAGC      120
TGCTGAGAAG CCAATCTTTG ACGTTAGAAT CAGAAGGCAA AAGGCCAGAA CTGCTGGCAT      180
TTTTATAATT GAGAATAGCA GCTTGTAAGT GTCTGTGATC CTTGGGTCT CTCTTTTAC      240
TATTGACGCT TCTCTGTTT CTCTTTTCAG AAGGGCTACT AATGTTGTTG TTATTAATAA      300
TACAGTAGGC CTCTTGGCC GAATTC      326
```

(2) INFORMATION FOR SEQ ID NO:1316:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 244 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1316:

```
GAATTCGGCC TTCATGGCCT AACGTCCTC ACTGTCCTTC TTAGTATCTA ATTCTCCTTC      60
ACCTAATAGA ACAGCAAATT CTTTGAGTTT AGGATCCTTA ATGCAGTGTA AATATTGCCT      120
TTTATCCTTC TTCTCAGCTA TGGTCTCAAT TCAAATCATG AGGACCATTG TGGTGGCTCC      180
CGAATGGCCT CACTGTTCCA CTCCTTCCCC ACTGCGCTAC AGTCCATTCC CCAGTGTCCT      240
CGAG      244
```

(2) INFORMATION FOR SEQ ID NO:1317:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 149 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1317:

```
GAATTCGGCC TTCATGGCCT AGAAAGGTTT GCCTGGTAAG ACTGAACTGT TCATAGTTCT      60
TTAAATAAGC TACAATATTT CTAATGTG TACCCTTGAT TTTACTGTTT TCTTGCCCTA      120
GAATGCTGTT TCTATCATTC TTCATCGAG      149
```

(2) INFORMATION FOR SEQ ID NO:1318:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1318:

```

GAATTCGGCC TTCATGGCCT AGTCAGCAAA GCAAGGGGAG GCAGACCACA GGCCTCATGA      60
CTCTCACTGG AGTGCAATGG GACCCCATG GGGTGAAAGC AGAGGAGTGA GCTGCTCTGA      120
TGTGAGCACT CACTCTGCTT GCCATATAGT GAGTAGACAG GAGAGACCAG GGCAGAAGTA      180
AGAAGACCCA TCAGAGGCTC CTCAGGAACC CGAGTGGGAG ATGGTGGTGG AACAGGGTTG      240
TAGTAGTGGC AGTAGTAAA AAATGATCAG GTTTTGAAA TATTGGAAG GTCGAACTCG      300
AG                                                                    302

```

(2) INFORMATION FOR SEQ ID NO:1319:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 219 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1319:

```

GAATTCGGCC TTCATGGCCT AAGAAAAAAA GAAAGAAAGA AAAAGAAAG TACAAGTTTA      60
TAAAGTATTA TAGTGAAAAA TTCGCATTCT GGCTGATTTT AAGCCATTTA AAATTTATAT      120
AAAACAACCT TCCATAAAAA TTTGACAGGT GCCCAGATGT TGCTTTCTCC ATTTATTTTT      180
TGTTTTTTTT TAATCACAGT GGTCTTGAGG CAGGTCGAG                                219

```

(2) INFORMATION FOR SEQ ID NO:1320:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 361 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1320:

```

GAATTCGGCC TTCATGGCCT ACTGAGTTAG GTTTTATTAA TGCAGTTTTT ACAGATGAGG      60
CTACTGTGAC ACAGAGGGCA TAAACTTGTC AAAGACATGC AGCAAACAGG ACAGACAAAT      120
CTGAAGCCAG GTTGTCTAAG CTCAGAATCC ACACCTATAA CCGCTGTACC CCACTGCTTT      180
TGCCAGCAGG AGCTCACGTA CTTAGGACAG ACAATCAGTA CAGTGCTAGG CTCACTGAAG      240
GTGTTGAACA AATGTCTGTT CACTCTTTTT GTTCTCAAAA GTACCAGGAA AGGCCAGAAG      300
AAAAAACTAC AAGACTTAGA AACTACAATG GATCAGATCA CTCAGTAGCA CCTCACTCGA      360
G                                                                    361

```

(2) INFORMATION FOR SEQ ID NO:1321:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 66 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1321:

```

GAATTCAAAC GAAAGCCAGC TGAGAATACA GGAAACATGT TTCCAGCCAA ACCCAAAACA      60
CTCGAG                                                                    66

```

(2) INFORMATION FOR SEQ ID NO:1322:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1322:

```

GATTGAATTC TAGACCTGCA GCTACAGAAG TCAAGATTCC AAAACCAAGA GGCAGACCCA      60
AAATGGTAAA ACAGCCCTGT CCTTCAGAGA GTGACATCAT TACTGAAGAG GACAAAAGTA      120
AGAAAAAGGG GCAAGAGGAA AAACAACCTA AAAAGCAGCC TAAGAAGGAT GAAGAGGGCC      180
AGAAGGAAGA AGATAAGCCA AGAAAAGAGC CGGATAAAAA AGAGGGGAAG AAAGAAGTTG      240
AATCAAAAAG GAAAAATTTA GCTAAAACAG GGGTTACTTC AACCTCCGAT TCTGAAGAAG      300
AAGGAGACGA TCTCGAG                                     317

```

(2) INFORMATION FOR SEQ ID NO:1323:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 106 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1323:

```

GAATTCGGCC TTCATGGCCT ACTGTAAGGA GGAGATGAAA GAATTAGTAG AAAAGGTTTT      60
AAAAACAGTT ATTATAACTA TATTCCATAT GCTGAAGGCG CTCGAG                      106

```

(2) INFORMATION FOR SEQ ID NO:1324:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 257 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1324:

```

GAATTCGGCC TTCATGGCCT ACTCCTTTAT TTCCTTTGTC TGTAGAATAA AGTCTTAGAA      60
TAATATTCCCT GTTAAGGCCG TGCTTATCCC AATACCGTAT CCATACTGAA CTTTCAGTTC      120
TTTATATGCA CTCTACTCTC TGTCTTTCAG ATTTTTCAG GTATTCCTTT AGAACACTCT      180
TTCTCTTCCA TCTTATCGCC TACTCTTTGG GTTCTGTGTT AAACATTACA TTTCTCGGTG      240
GGGGGGCTTA TCTCGAG                                     257

```

(2) INFORMATION FOR SEQ ID NO:1325:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 78 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1325:

```
CTCGAGACCG CAAGCACTTC CCACCTCATC CTTATTTCTT CTATCCCTTT TCATTGTTTT    60
TTTCTCCTTT TTAAATTC                                                    78
```

(2) INFORMATION FOR SEQ ID NO:1326:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1326:

```
GAATTCGGCC TTCATGGCCT AGAATTGTCC TCTGTGGAAG GGACTTTCTT TTGGCCCTAG    60
GCCCCTTCCT GCCCCTGTCG TCAGCAGAGA GATGGAAAAC TTGATGACTA GCTCCACCCT    120
ACCGCCCTTT TTTGCAGATG AAGACGGTTC CAAGGAGAGT AATGATCTGG CTACCACTGG    180
GTTAAATCAC CCAGAGGTTC CATAcAGTAG TGGCGCCACA TCATCCACCA ACAATCCAGA    240
ATTTGTGGAG GATCTCTCTC AAGGTCAGTT GCTTCAGAGT GAGTCTTCAA ATGCAGCAGA    300
AGGCACCTCG AG                                                            312
```

(2) INFORMATION FOR SEQ ID NO:1327:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 411 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1327:

```
GCGATTGATT CTAGACCTGC CTCTCCTTCA AGCATTGCAG CAAACAATTG TACTGTGAAT    60
ACGTCATCAA TTGCAACGTC TTCAATGAAG GGTCTTACGA CTACAGGAAA CTCGTCTCTT    120
AATAGCACAT CTAACACTAA AGTATCAGCA GTGCCTACAA ATATGGCTGC CAAGAAAACA    180
TCTACCCCCA AAATAAATTT TGTTGGTGGT AATAAGCTGC AGTCAACAGG AAATAAAGCA    240
GAAGACACAA AAGGAACCGA ATGTGTTAAA AGTACTCCTG TCACTTCTGC TGTGCAGATT    300
CCTGAAGTAA AGCAAGACAC AGTGTcAGAA CCAGTCACAC CTGCATCTCT TGCTGCTTTA    360
CAGAGTGATG TGCAGCCAGT GGGCCATGAT TATGTGGAAG GGATACTCGA G              411
```

(2) INFORMATION FOR SEQ ID NO:1328:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1328:


```

GAATTCGGCC TTCATGGCCT ACTTTTTCCT TGGTCAGATC ACAATGCTCC TATAAATGTT      60
TCACATAACA TGCTTACTTG TGGGTATACC CTCCTTATCT CCTCAGGGGC TAATTTTGGG      120
AAGGGACTAC TGTCTTACT TTAAAGTTAA ATATAAACTA AATTCCTTCC CTAGTTAGCT      180
CAGCCTACGT GCAGAGATAA GCAAAAGTAG TTAACCTAAA AGATATCACC CTTTGGGGGG      240
TGTCAGAGGC AAAATAGAGT CAGTCATGCT AAGCTCCCTC CTCGAG                      286

```

(2) INFORMATION FOR SEQ ID NO:1329:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 340 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1329:

```

GAATTCGGCC TTCATGGCCT AGGGGGATTG AAGATTTTTT GTAGGTGGAA GGCCTGAAGT      60
GCGACTAGAG GGCAATAAAT TCAAGGTGGG AGACTGTCTG CTGATGTTCA TTCCACTGGG      120
CTGTTTATGG ACTGGGCTGT TAGTGCTGGA GTGGCTACCC TGGGCAACTA GTGCATTGGG      180
ACTGGAATA CTTGGGGATA CAGTAGGCTT GGGAGTTGGG TTGGATTAG AAATAAGTTT      240
AGTTGATACT GAAGGCTTAG CTGACAGAGA GGGCTTGGGT GAGGCAGAAG GCTTAGGCGA      300
GGGCAGGGGT TTAGGAGATG TGGCAGGTCT AGAATTCGAG                      340

```

(2) INFORMATION FOR SEQ ID NO:1330:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1330:

```

GAATTAAAGA GGGCGATATC ATCACACTCA CTAACCAAAT TGATGAGAAC TGGTATGAGG      60
GGATGCTGCA TGGCCATTCA GGCTTCTTCC CCATCAATTA TGTGGAAATT CTGGTTGCCC      120
TGCCCCATTA GGATGTTATG CTGGCTGGCT CGCCTCCTCT TGACCCAGAT AGTTACGGTT      180
AACCACTGCT TTGGCAATGC TGCTTATAAC ACATCCCAAG TGCAGGCCGC AGTGGTCCAC      240
GTCATCCAGC CCCACCAAGT GACTTTGGTT GACTTGTGGG CTCCACAGG ACTCGAG      297

```

(2) INFORMATION FOR SEQ ID NO:1331:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1331:

```

CTCGAGTCCG CTGAGCTGAG AAGCACTGCG ACTTTTCCGT GACAGACCAA CGATAGCTAC      60
CATTTTGGCA CCAAGGCTAG AGCGCCGCTT TTTGCCACTG GTGCCCAAGG TGCCCACTGC      120
AGTGTCAGAC TGGCTGCCAT CATTCTTCTC CAGTGAGCAC ATGTCTCCAC TGATGCTGGT      180
GCTTTTGTGC ATGTTCTTCC CTGATATGCC CATTTGTCTG CTTTGCATTT TGGATGTAAA      240

```

GACACTGTCA GCCGATGGAT CATTAAAAGT GAGGACAAGA GTAAAAAGGA AAAGACAGAA 300
AATGCATTTT AGATAAAACA TTTGGAGTAT AATTTAGGCC ATGAAGGCCG AATTC 355

(2) INFORMATION FOR SEQ ID NO:1332:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 438 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1332:

GAATTCGGCC TTCATGTGCG GTGAAGGTCC TGTGATTGTA CAGTTAGCAC ATTTTATATG 60
ACAGTATAAT CTTAAAAAAT AACATAGAAA CAGAAACATT AGAAACGTAA GTCACAGTTT 120
GTGAGTATGT CATTTTTTAG GGAAAAATAA AATATAGTAA CGATTTATGA GGCCCCAAAG 180
TTTTATATAA AAATGAAAAA GCTGTTTGGC AGTTAGGACT GACTGTAGCC TTCTGTCAAA 240
TCAGTCTTGA CAACTGTAA AAGACATTAT CATCAAAAT AGGGCTGCAT TTCACTCTGT 300
CTGTCAAATA CAATCAATAT ATATGACTTT AAGAAAGTGT GACCATTTTC CCAGAGTGAC 360
ACCAACAAGA TGGTGAATA GGAATTTTGT TTTAACTTTA CTCACCTCAC AGAAATCCAA 420
CTAGCAACTA ACCTCGAG 438

(2) INFORMATION FOR SEQ ID NO:1333:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1333:

GAATTCTAGC CCCACCCACT TTCTCAGACA TCCCCACCGG AGGATCCCAT CAGTCACAAT 60
CCTCACTAAT TAGACCATT CAAATCCCCA AAATAAAAAA AGGGAAAGAG GTATAGACTT 120
ATCTTAAGGG TCTTAAGTTC TGGCATTITT CTATTTAATA ATATATATTG CTATAAAATG 180
GAATTACTAC CAAAATTTAG AAAATCTTTT AGCAGAAGAT ACAGCCCTAA TCTTACCACT 240
CCAGTACAAT CATTATTGAC ATTTATGATG TACTTCGTTA TAGTATCAAA ACAATTCCAG 300
TATGTGAAC 309

(2) INFORMATION FOR SEQ ID NO:1334:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 243 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1334:

GCGATTGAAT TCTAGACCTG CCTCGAGCTG CCGTGTTTTT CATTTTAATT GTGTGACATA 60
AAATGTAAAA TGTACCCTCT AAACCATTTT TAGTGTCCA GTTTTGTGGT ATTAAGTACA 120
TTCACATTAT TGTGCAACCG TCCCCACCAT CCATTCACAG AACTCTTTCA ACTTGCAAAA 180
CTGAAACTGT ATGCATTAAG CAATAACTAT CCCTTCCTTC TTTCCTCTTC CCCAGAGCTC 240

GAG

243

(2) INFORMATION FOR SEQ ID NO:1335:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 280 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1335:

```

GAATTCGGCC TTCATGGCCT AATTCTGGGA AACTGAGAG AAAAATCTGA GGCCATCCAG      60
AAGGAACTAG AACAGACCAA GCAAAAAACA ATCAGTGC GG TTGGTGAGCA GCTCCTGCCC      120
ACAGTCGAGC ACCTCCAGCT GGAGCTGGAT CAGCTAAAGT CAGAGCTGTC CAGCTGGCGA      180
CACGTGAAGA CCGGCTGTGA GACAGTGGAT GCCGTACAAG AAAGAGTGGA CGTGCAAGTC      240
AGAGAAATGG TGAACTCCT GTTTTCCGAA ATAGCTCGAG      280

```

(2) INFORMATION FOR SEQ ID NO:1336:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 281 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1336:

```

GAATTCGGCC TTCATGGCCT ATAGCCATG AAGGCCGAAT TCGGCCTTCA TGGCCTAGAC      60
TAATCTTACT GTAGAAATGA TGTGAGATTC TTGTTTGACT ATTTTAGAGC AGATTCGGTA      120
TCTAATGGGA TTCCATCTTG ATGTACAGAG CACCTTCTAC ATAATGAATT TTGCATTTCA      180
GATGGATGAA GCCTTTAACA CAGACAGAAT TTTAAGTATT GCATATTCTT GGAAGAAAAG      240
CATTGATCAC ATCCTCCTTA GATATTTAGT AATACCTCGA G      281

```

(2) INFORMATION FOR SEQ ID NO:1337:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 172 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1337:

```

GAATTCGGCC TTCATGGCCT AATATTTAGG TAAAAAGGTA AACTAGTACA CCTACCAGAA      60
AAGATAAATA TTAATTTATT GCATCTCTGA CATGAGAAAA AAAGCCTTTA TGTTTTACTG      120
TTTTTTTCTA ATTTTCTTT TTCTTTTTTT TTTTCACATG AATGTTCTCG AG      172

```

(2) INFORMATION FOR SEQ ID NO:1338:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 235 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1338:

GAATTCGGCC TTCATGGCCT ACTGTATTTT ATAGTGAAGT GTTCATAAAC TAAAGAGTCA	60
TTGATTGGT TTCCTGGCTA ATTAAATCT GAATTCCATT TGAAGTCCA TTGAAATCAT	120
GGTTTTACTC TATAGCAGTG GATGTTTTT CCCAACCTT CTGATATTTT TTCCTTCCT	180
GAGACAGGGT CTTGCTCTGT CACCTGGGAT GGAGTGTAGT TGCACCAAAC TCGAG	235

(2) INFORMATION FOR SEQ ID NO:1339:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 148 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1339:

GAATTCGGCC TTCATGGCCT ACTTGTTTTT AAAGGCATAT GTTGTTTAT TGTGCTTCAC	60
AGGTACTGTA TCTTTTTTA CAAATCTAAG TTTTGTGGCA ACTCTGTGTC AAGCAAGGCT	120
ATTGGCCCCA TTTTCCCAAC AAGCACGC	148

(2) INFORMATION FOR SEQ ID NO:1340:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 257 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1340:

GCCTGTGTGA AGTTTTGACT TTAATCTACC AGATCACTCC TTCACCCTCC ATAAAGATGT	60
CTGAACCTGA CACTTCCTCA GGATTTTCGG GAAGTGTGGA GAATGGAAC TTTCTTGAGC	120
TGTTTTCCAC ATCCCTGTCC ACGTCAGTGG ACCCATCCTC AGGCCACCTG TCAAACGTCT	180
ACATCTATGT GTCCATATTC CTCAGCCTTT TAGCGTTTCT GCTTCTGCTT TTAATCATTG	240
CCCCCAGAG GCTCGAG	257

(2) INFORMATION FOR SEQ ID NO:1341:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 259 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1341:

```

GAATTCGGCC TTCATGGCCT ACTATAAAGT ACTCTCGCTG GTATTGTCAG TATGTGTGTT      60
AACAACAATA CTTGGTTGTA TATTTGGGTT GAAACCAAGC TGTGCCAAAG AAGTTAAAAG      120
TTGCAAAGGT CGCTGTTTCG AGAGAACATT TGGGAACTGT CGCTGTGATG CTGCCTGTGT      180
TGAGCTTGGG AACTGCTGTT TAGATTACCA GGAGACGTGC ATAGAACCAG AACATATATG      240
GACTTGCAAC AACTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1342:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 268 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1342:

```

GAATTCGGCC TTCATGGCCT AGTCCTTGAC TCTGGAGTTT TACAAAGCAG TCACATTTC      60
AATAAAAGTC TGGGAAAGCA ACACATCATC GCCAAGCTTT AATTTTGCTA AATAAGGATA      120
TTAGAAAAAG AATAGAAAAT TGCAGTCCCT TACTGTTTAA AGAAAAACCA AAAGAAGTTA      180
AAAAAAAAAC AACCTCATTG TGTGTCTTT GTTTTGTGTT TGTTCCTTT CCTTGGAAT      240
CAGTGAAAGT TTGGTCAGCC ACCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1343:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 241 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1343:

```

GAATTCGGCC TTCATGGCCT AGCCATTAA TATACTAAAA CAGTGTGTA AATTAACCTT      60
GGTACAAATT GCCAGTCATC TCTAGATCAT TTTAAGCATT TTAAGAATAT TTATTATCAA      120
TCTAAGTACA GAAGAATAAC TGCCAGCAGT GATTATTTGC TTTGGATTAG AGTTTTTAAA      180
AATCCACCTC ACTGAAATGG TTATGTTTAT CACAGTTTGC AAGGTTTGTC TGTTCCTCGA      240
G

```

(2) INFORMATION FOR SEQ ID NO:1344:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1344:

```

GAATTCGGCC TTCATGGCCT ACCCATTCCT TCCTTCCTGC CTGGCCTGGG CCCCTCCTGC      60
ACAGATGGCC TAGGTACCCA GCCTGGAGGC CAAGGCTGGA TTCCCAGAGT CTGCCCTGGT      120
GGAGTGGGAA TAGCAGGTTC TCTGCAACTC AGGGGAGCTG CCCTGCAGGG CTTCCACAT      180
GTGCTCAGGC CCCTGTGCCA GGTCTGGTGA TGCTTCCTCC TTGCCTTTCA GGATCTCCTA      240
TTGCACAGCA GACAAGATGC ACGACAAGGT GTTTCATAC ATCGCCAGA GCCAGCACAA      300

```

CCAGAGCCTC GAG

313

(2) INFORMATION FOR SEQ ID NO:1345:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1345:

GAATTCGGCC TTCATGGCCT AGGCTTCTCT TCTGAATTGA TTGGTAGTGT TGTTATTTTC	60
TTGTTATTCA GTTTAACAAG TACATAATCA ACATCAGTGC TTGGGAAGTC AGGAGTACGA	120
GAGATAAATA AGAAGTATAT GATCTTTTCT CTTATTTTCT CTCAGTATAA GTTGGACCTG	180
TTTTTCCCTT CATCTCTTTT TCTTCAAGAA CATAATATCG GCTGAAGTGG AATGAGTATT	240
CAAATTGTCC AAAAAAATAT ACAAGTGAGG GAATTAATAA AATTTTTTGT AATTATAAAT	300
ATGTATATAT TGGGGGGCAG TCTCGAG	327

(2) INFORMATION FOR SEQ ID NO:1346:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 189 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1346:

GAATTCGGCC TCATGGCCTA AATCCTTGGA AATACAATGA GACTCATCAG AAACATTTC	60
ATATTTTGTG GTATAGTTAT GACAGCAGAG GGTGATGCTC CAGAGCTGCC AGAAGAAAGG	120
GAAGTGATGA CCAACTGCTC CAACATGTCT CTAAGAAAGG TTCCCGCAGA CTTGACCCCA	180
ACACTCGAG	189

(2) INFORMATION FOR SEQ ID NO:1347:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1347:

GAATTCGGCC TTCATGGCCT AGTGGGCTTC AGGAAAGCAA AATATAAATA TTATGGTTAA	60
AGAATTTATA ATTAAGATT CACCCATAAT TCTTAATACT GTGTTGACAA TCATGGCTGC	120
ATTGTCTCCA AAAACAAAAG AAGATGGATC CAAAGATACG TCTAAGGAAA TGGAAAATCT	180
TTGGGGTATC AAATCGATTA ATGATTATAA CACTTGGTTT CTTGGTGTTG ACACGGCAAC	240
AGAAATAACG GAAAAGCTCG AG	262

(2) INFORMATION FOR SEQ ID NO:1348:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 333 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1348:

GAATTCGGCC	TTCATGGCCT	AGTAATGTTA	AAACAAACGA	AATAAAAATA	GAAGGAAAAA	60
CTTTCTGAGT	TTCAAAAACA	ACAGACTAGT	ACTCTAAAGA	ACTCTTTAAA	ACAATTAAGT	120
GTTAGGATTG	CAGTTATGAT	TGGATATTAT	TTAATTCTGT	TTCTGATGTG	GGGTTCTCTC	180
ACTGTGTTCT	GTGTGCTATT	AATATTTACC	ATTGCAGAAG	CTTCATTGAG	TGTTGAAAAA	240
GAATGCTTAG	TGGATCTGTG	CCTCTTATGC	ATATGTTACA	AATTATCTGG	AGTTCCTAAT	300
CAATGCAGAG	TTCCCTCCC	CTCCGCGCTC	GAG			333

(2) INFORMATION FOR SEQ ID NO:1349:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 553 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1349:

GAATTCGGCC	TTCATGGCCT	AGGAAGACAG	ATTTACACAGA	GAGTGGGTTT	CATGTAAAT	60
GTCTGATTTT	CTTGTGGGAT	GCCCCACAA	GGACACTAGG	TTTTGTGGGC	CAATGTGTTA	120
TGTGTGTATG	TAGGCAAGCA	GGAGGGGGTG	GGTGGGCTTC	TTTTTTTTTC	TATTTTTTTC	180
TTTTCTTTTT	TGGTTGTGGA	AGAACCACGT	TAACCCCTCT	AATTTCTTTA	AAAAGACATA	240
AGGTTTGAAA	AGGAGATTTT	AGGAAGAAGC	AAAAGAAAAA	AAATGGGATA	CATATATTGC	300
ATCTGTAATC	CAATCAAGCT	GTCACTGAAG	ACAACTTGA	TCTCTGTTCT	CACCACTTGA	360
CACACTCATC	AGGCTATAGG	TCAACTCTAA	GTGTGGTGAC	AGGTGATGGA	CTCTATGCCA	420
ATTCTGATAC	TGAATTTTCT	TTTGCTTATT	GAAGCTTCAT	TTTGTGTGTT	TTAATTATGA	480
AAGTATAGTA	ACACCTACCA	TGCATACCAA	AGCAATATCA	ATATTTTCAA	ATGCATCTTC	540
CCCCATTCTC	GAG					553

(2) INFORMATION FOR SEQ ID NO:1350:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 246 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1350:

GAATTCGGCC	TTCATGGCCT	AGGTTTTTGT	TGTTTGTTTT	TAAAGGAGTT	AGACATAGCC	60
TAACAAACTG	GAAATTGACA	TTTCCATCTA	TTTTTCTCCC	TTTTGAAGCT	AAATATGTCT	120
TTGTTATTTT	GGTTCCTAGT	CCCCATTACT	ACTTATTTTC	TGATAGTTCA	TCCACAGCAA	180
CTTCAGTCAG	TTAGCTCACT	AGTTCTTATG	GCTAGAGATT	CCGCCAGTTT	TCCCCTAAAA	240
CTCGAG						246

(2) INFORMATION FOR SEQ ID NO:1351:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1351:

```

AAAGAAAAA TAAAAA AAAAAGGTA TGTGAGACAC ACAAGAAAG      60
CAATCAGTG TTGTAAGCTT AAAGTACAAT TTCAAAGGTC ATTACCAACA GCAGGGTTTT      120
TTTATACTT TAAAAACATT ATGCTACATA TCATTGCCAT TTCATATTT TGGGGTTTTG      180
CTACTCTTAT ACAATGGAAT CAATGGAAAT GTCATCCAGC CAGATCTCGA G          231

```

(2) INFORMATION FOR SEQ ID NO:1352:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 260 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1352:

```

TGAATTCTAG ACCTGCCTCG AGTTGCTCCC AGGAATAGTC CAAAGGAGCT GCTCTTGCCC      60
CTTTATACAC AAGCGCCAGC AACCAAAACC CTCCCTCCTG GCAATAAGGC CTCACTATAG      120
TTGCCCTCAT GCTTCCTAAG CTCTCTCTTG CTCTAATAAC TCTAATTCTG GGCCAAGCCC      180
AAGAGTGCCA TTCTTTCTTC CTAGCTGGGG ATGGAAAGCT GAGAGGGGCA CAAGGAGGGC      240
AAAAGTATCA CCCTATCGAG                                260

```

(2) INFORMATION FOR SEQ ID NO:1353:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 482 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1353:

```

GAATTCGCCT TCATGGCCTA CTTTCAAGT GAATGATTG GTGTTTGAAC CTTCTTGATT      60
ACCTTAAGAG GGAAAAATGA AGGAGAGGAG GGAACCATCA TCACATACCT TTACAGTTGT      120
GGAATGTTAG CCCACTATAG TGTTTAACTA AGGAAAATCT AATATAATAC ACTCCCAAGT      180
GATCTGAAAT GATCCGCTAT TCAGAATTCC AGAGAAAGAC ATATCCCTGC CAGAAGGGTG      240
TCCTTCATAA CCAAATTTGG TCTTCAGTCT GGTCCGGTGCA TACTCAAACA GGAATCACTT      300
CCCTTAAGGA ACCTAAGGTA TGCAGTTGAG ATCAACTTAT TCCTTTTTGA TTTGTCCCCT      360
TAAAGCATCA ATCAGACGTG AATGCATCTT GTGACTTGGA GTTACTAGTA ATATTGAAAT      420
CTGAAACTTG GGGGATCTTT GAAGACACAT GGGATTAAAA GCTGCATAAT ATACATCTCG      480
AG                                                                482

```

(2) INFORMATION FOR SEQ ID NO:1354:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1354:

GAATTCGGCC	TTCATGGCCT	AATACCCAAA	ATTGGCATGA	CTACTTATAA	AATAGTGCCT	60
CCCAAATCCT	TGGAAATATC	GAAAGACTGG	CAATCAGAAA	CCATAGAGTA	TAAAGATGAT	120
CAGGACATGC	ATGCTTTAGG	GAAAAAGCAC	ACTCATGAGA	ATGTGAAAGA	AACTGCCATC	180
CAAACAGAAG	ATTCTGCTAT	TTCTGAAAGC	CCAGAAGAGC	CACTGCCAAA	CCTTAAACCG	240
AAGCCTAACC	TGAGAACAGA	GCATCAAGTG	CCCAGTTCTG	TGAGCTCACC	TGATGATGCC	300
ATGGTTAGTC	CTCTGAAACC	TGCTCCCAAA	AATCTCGAG			339

(2) INFORMATION FOR SEQ ID NO:1355:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 203 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1355:

GAATTCGGCC	TTCATGGCCT	ACTTTTAGAT	GCTTTACATG	CATAAATTCA	AATAATACAT	60
TAATAACCTT	CCATACATCT	TTCTTTGTGT	ACACGTTACT	ATTCTGTAA	GATAGATTTT	120
TAAAAGTGGA	ATTTCTAGGC	CAAATGATTT	ACACTTTTTT	TGTTTGTGTT	TTTTTTTGT	180
TTTTTGAGAC	GGAGTGTCTC	GAG				203

(2) INFORMATION FOR SEQ ID NO:1356:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 516 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1356:

GAATTCGGCC	TTCATGGCCT	AGGAGAATCA	GGCAGGGAGG	TTGCAGTGAG	CCGAGATGGC	60
AGCAGTACAG	TCTAGCTTCG	GCTCGGCATC	AGAGGGAGAC	CGTGGAAAGA	GAGGGAGAGG	120
GAGACCGTGG	GGAGAAGGAG	AANGAGGGGG	AGGGGGAGGG	GGGGAGAGGG	AGAGGGACAA	180
TGATGTCTTG	CTGTAGGTAT	TCTTCCCCAT	TTGAATTTTT	TCCTCAGCAT	TATTTTTTTT	240
AACATCATTC	AGTCTCCTCT	TATACTACAC	TTGGATTGAA	TTTAATATCT	CATGAAGAAA	300
AAACATTTCT	ACTTTGAAGC	ATGTGAATTA	GCATGTTTTT	ATAACAGCTT	TATTGAGATA	360
TAATTTACAT	ATATAAATAA	ACCGTTTAAA	GTGTATAAAT	CAGTGGTTTT	TAATGAGATA	420
TAATTTACAT	ATATAAATCA	ACCATTTAAA	GTGTATAAAT	CAGTGGTTTT	TAAAAATATTC	480
ACAATGTTGT	ACGACCGTCT	TCTCAGTCAA	CTCGAG			516

(2) INFORMATION FOR SEQ ID NO:1357:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 405 base pairs
(B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1357:

```
GAATTACTAA TCAAGAAAAA ACAAATCAC AAATCACTAC CAAAGCAGTT CATTGTCAAT      60
AATTTTTTTC CCTTGTATTT TTGTTTACTT TTTGCGAACC CTGAGCATAC ATCCAAGTTG      120
CCCTAAATAT ACGCACACCT GAGGTTGTCT TTATAGGAGC TTTATGGTTG CAAGTTTTGT      180
GTATAATCTT TAATCATTTT GAGTTGATTA TTGTGTATCT AGTACCATAA GAGTCCTGTA      240
TTATTCTTTT GCATATGGAT ATCTAGTTT GGAAATCTTC CCCGTTGTGT CATTTTGGTG      300
GTGTTTTGAA AAATGTGTTC ATTCCATATA AATTTTTGTT TATTATCGAG CACATTCATT      360
TTGCTCACTG GTCTGTGTTT CTCTGTGTAC GCCAGTAACC TCGAG                      405
```

(2) INFORMATION FOR SEQ ID NO:1358:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 328 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1358:

```
CTCGAGTCTG GCTTTGTTTC AAAATGATTA AGATTAAATG ATGAAATAAT ATTTTATAGC      60
CACTGCATTG GATACTTGA TTGTTTTCAG AGCATCTTCT TATGACTAAA TCCTCTGTTT      120
CATTCTGTTT TAAATCTAAA AAGTAAATG ATGGTCACTT GGAATCTGCT CTATATTTTA      180
ATTATAGTCT CTTCTGTTTA TAAACAATAA CTTACACATA TTTTTCATAG TTTTAAGTAA      240
AGATTAAATA ATGCCATCTT AGAAAGGATC TGTTTAACCT ATATTATAAA AGTTAGATAC      300
ACAATTTTAG GCCATGAAGG CCGAATTC                      328
```

(2) INFORMATION FOR SEQ ID NO:1359:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 250 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1359:

```
CTCGATGGCC TAAGGCAGTC TCCTGGAAGC ATGACATTGA TGCCCTGGGC TCACCTCTTT      60
GTTTGTGTTT CCTTCCACTT TAGCGGGAAC CACATCTTCA AGGGCCGTGC TGCCGGCATA      120
GCAGTGAATG AGAACGGCAA AGGCCTCATC ACAGGTACGG ATGGGAACTG CCTGGCACCT      180
GGCAGCCAGG CCAAGGTCCC CTGGCGTCAC CCCCAGCTT CAGGACCTCT AGGCCATGAA      240
GGCCGAATTC                      250
```

(2) INFORMATION FOR SEQ ID NO:1360:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 206 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1360:

GAATTCGGCC	TTCATGGCCT	ACGATTCTAT	TTCCTTATCT	GCTTGCAGAG	CTATTTAAGA	60
ATCAATGTCT	TATTTTTCCT	GAGTCCTTTA	TAACCCTATT	CATATTTTCA	ATTGCTGATG	120
CCTCTTTGAG	CTACGAGTTC	TACTTTGTGC	ATAACGTTGA	GGAATTTCTA	CGTTTACTGT	180
TTCTCCTTAC	TTCACTCATC	CTCGAG				206

(2) INFORMATION FOR SEQ ID NO:1361:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 377 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1361:

GAATTCGGCC	TTCATGGCCT	AAGAAATCAA	CGTTGAACCC	TAATGCTAAG	GAGTTCAATC	60
CTACAAAGCC	TCTGCTGTCT	GTGGTGAGCT	GGGACAGGAG	AATGTGGACT	TTGGTTTCTG	120
TGGGGAGACT	TGGGCAGTGC	TTATAGATGA	ATAGGGGGAG	GAACACTTCA	CTTCCAGGAC	180
CACTTGCCCTG	GCAGGCAGTG	TGAGGAGATG	TCATAAAAT	GTAAGGATGG	CACCTTTGGG	240
GCTGGCTTGG	GGAAAATGGA	CTCAGGTCTC	TAGGTTTGGG	TGATCAGGGA	TCCCAGTGAG	300
TCTGATGAGG	GGTTAACAGG	CTTTTCTTTG	GTTCTTGGCA	TTTGGCTGAG	GGAGTATTGG	360
AGTGGGGATA	GCTCGAG					377

(2) INFORMATION FOR SEQ ID NO:1362:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 264 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1362:

GAATTCGGCC	TTCATGGCCT	AGTTAAAGGC	AAGTATGTCA	TATTACTGAG	GCTACAAGTT	60
AGTCAGCAGA	TGAGTGCCAG	TCCAGCCTTT	TCTGGTATGT	TATTGTTAGA	AATATTGAGT	120
TCTAATGTTA	CATCTGAGGA	AGTATGTAAT	TTGAGAATTG	TAACTTCTAA	GGGATTCACT	180
GCATCATAGC	TATGCCTGTA	TGGAGTCTAA	CATATGACCA	ATACCAACCC	ATAATCCAGC	240
ATTGAATTCT	AGACCTGCCT	CGAG				264

(2) INFORMATION FOR SEQ ID NO:1363:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1363:

```

GAATTCGGCC TTCATGGCCT ACCCCTCCCC TAGTTCAGT CCAGGTAAAC AAAAATTGAT      60
TCTATTTTTT CAAAACACCA GCCCCTTCAG ATGGCCTGGT TAATCTTCAT TAACATGTTA      120
TCTTCATTAA CATGTTTATC TTCATTAACA TATTCTCAG TGATAAGAAG GGCCCAAGGT      180
TCAACATCCC ACTTTGCATC CATGCAGACA AGGGCTGTGG GAAGCTGTAA AACTGAAGAG      240
GCGGTGAATC CAGGAGGGAT TCCCAGATA TCCGTGAGTT GGTGTTTGAC TTTCTTGAAC      300
ACGTCTTTCC TTTACTTTAC ACTTCCACTC GAG                                     333

```

(2) INFORMATION FOR SEQ ID NO:1364:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 358 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1364:

```

CTCGAGGGGT CATGTTGTTG GGGAGAAAGA GACCACATCA CACACAGAGA GAACAAGTCT      60
GTATTAGTTG CTTTGTGCTAC ATAACAACC ACTCCAAAT TTAGTGGTTT AGAACAATCA      120
CCTATTTAGT TAATGATTCT CTGGGTGCA ACTTGGTCTG GGATCAGCTG GGCAGTTCTT      180
TTGCTGGTCT CAGCTGGGTT CAGCTGCCTA TCAGCTAGGG AGCTCTGTTT CAGAGGTTGG      240
TTGGCTATGG GTGGCAGGGA TCAAGGATGA CGGAGCCATG TGTCTCTTTT CCCTTTATTA      300
CCCAGCAGGT TAGCCCAGAT CTTTTCCTTT TCTTCTCTAG GCCATGAAGG CCGAATTC      358

```

(2) INFORMATION FOR SEQ ID NO:1365:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1365:

```

GAATTCGGCC TTCATGGCCT ACTTGTTTCAG GGTATGGGGC TAGGATGAGA GAGAAATNCCA      60
CAGAGTATGA AGGAAGAGTG ATAGATCCAG ATGAGATACA GCTCAGAGTG CCACGCCCCC      120
AGAAAGAGGA ATCAGGCAAG TACTGTCCCA AGGCAGCTGG AGGGTGAGGG CTGAGTGCCC      180
TGGCTTCTC ACTTGGGGAG ACCATGGGTC TCTGTAGAAA TTCCAATATA AAGGCAGGGA      240
AATTTGACTG CATGGAGTCT TCAGGTAGAA ATGTTTCTCT TGCCTAAATT CA               292

```

(2) INFORMATION FOR SEQ ID NO:1366:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1366:

```

GAATTGAGCA AGATACCTGG GTCATGATCT CTGAACAGGG TGAGAACTT TATAAAATGA      60
TGTGCAGACA AGGAAATCTG ATCAAAGACA GAAAAAGAAA ACTGACTACG TTCCCTAAAT      120
GCTTCTTGG AAGCGAATTT GTGTCATGGC TGTGGAAAT TGGAGAGATT CACAGGCCTG      180

```

AGGAAGGCGT GCACTTGGGA CAAGCATTAT TAGAAAATGG AATCATTAC CATGTTACTG 240
 ATAAACATCA ATTCAAACCA GAACAGATGT TATATAGATT TCGCTATGAT GATGGAACAT 300
 TTTATCCAAG AAATGAGATG CAGGACGTTT TCGAG 335

(2) INFORMATION FOR SEQ ID NO:1367:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 383 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1367:

GAATTCGGCC TTCATGGCCT ACTTTCTCTG TTTGCCTTGA CCTTTCTTTT TCATGTTAAA 60
 GCCTTTCTCTC AAATGTCTGA TTACCCTTGG CTGCCCGTCA TTTAAGAAAG CGCCACTAGT 120
 CAGCTCATCG GAAGCTGTGA GGGAGAGGGC TGCATTTGGT CCTGCCAGGT GGAGGAACAC 180
 TCAGGCATCA GTACTAGGAG GTCTTTCTCTC TCAGCCCATG GGATTTCCCT AGAGTCCTAC 240
 ACGGCTGGGA TGAGGCACCT GGGTGCTGAG TAGAGGAAGG GAGTCATGGG TCAGTCACCC 300
 TGTATGCAGA TTTTCACACA ACCCCCTCTC TCCAGGACAC GCCTCGCCCC CCACCCTAAG 360
 TAATGCAGAA CCAAATCTC GAG 383

(2) INFORMATION FOR SEQ ID NO:1368:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1368:

GAATTCCTTAT GTGACTGCGA TGGATCTCTT TGTTTCTGTT TGTTTCATTT TTGTTTTTGC 60
 AGCCTTGATG GAATATGGAA CCTTGCATTA TTTTACCAGC AACCAAAAAG GAAAGACTGC 120
 TACTAAAGAC AGAAAGCTAA AAAATAAAGC CTCGATGACT CCTGGTCTCC ATCCTGGATC 180
 CACTCTGATT CCAATGAATA ATATTTCTGT GCCGCAAGAA GATGATTATG GGTATCAGTG 240
 TTTGGAGGGC AAAGATTGTG CCAGCTTCTT CTGTTGCTTT GAAGACTGCA GAACAGGATC 300
 TTGGAGGGAA GGAAGGATAC ACATACGCAT TGCCAACTG ACTCGAG 347

(2) INFORMATION FOR SEQ ID NO:1369:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 243 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1369:

GAATTCGGCC TTCATGGCCT ACCATTTTCT ATGAGCAGAG GAGAGTCACA GGGCATCATG 60
 TGTTAGGAGA AAGAGGCTGG ACTTTATCTT GTCAGTAATG CTGGATGATA CAATAAGGGT 120
 AGGGCCTCAA AAAGTAAATG TAAAAATGAT ATTTGGCACA CATTTGGGTG AATAGAGGCT 180
 GGAGAAAGGG AACCAAGTCA CTATGTATTG GAATAATTCA AGTATAGGCC TGGGATACTC 240

GAG

243

(2) INFORMATION FOR SEQ ID NO:1370:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 256 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1370:

```

GAATTCGGCC TTCATGGCCT AGAGGATTAC TTATTTCTCA GCATTCATCT GGTAACCTAA      60
GCAGCATGAA GCAAGAGTTG CACTTTAAAA AATGACAAGA AAATAGCTAT TCATTTAGTC      120
GACAGAGTAA GGCCCATCTC ATTTCCAGGA TCACTAGTTT CTGCTTATGA CGGGGTGAGC      180
ATCCGCCAGC GCGGTGATTG GGAGGCGCCC CTGTGTCCTT AGGCTGAGGC AGTGCCCATATA      240
GCTGCAGTGC CTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1371:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1371:

```

GAATTCGGCC TTCATGGCCT AGTGTAGCAA GCTTCCCCTT TGGGAGGGAT GTGAGAACAG      60
AAGACTGAGG ATTGTCTCTA ACTCTAGGAT TCTTTGATGA TTGATTGGAT TGGGGTTTTG      120
TGTTGTGTCT AATATTACGG ATGCTAAAAT GCCTGTACTT CCAAGGTGAT AGCCACCAAT      180
AACCATACAC GTACTAGTCA TCCTAGAAGT GTTTTTATTT CTTCTGTTGG TTATCTTCCC      240
TACCCCTAGG GTTGGTGTCT GTTTCCTGCT ACTTCAGGTT GGTTCCTCAC TGGGAGGCTT      300
CTGCTGACAG AAAGCCCCAT GCTTGCTCG AG

```

(2) INFORMATION FOR SEQ ID NO:1372:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1372:

```

CTCGAGGGCA ACTGCAGAAG AAAAGATCAG TGAATCTGAT GACATAGCAG AAGAACTAT      60
CTAAAGCGAA GAAGACAGGA AAAAAAGCCC CAATGTGAAA TGAACAGATC ACCAGTGAGC      120
TGTGGAACAA CCTATATGGG TTATAGGAGA CCCTAAATGA GAGAACAAGG GACTAAAAGA      180
AGGATTTAAA GAAATAATAG TACAATTTTC TCCAAGTTTC ATGAAAACCG ATTGAATTCT      240
AGACCTGCCT CGAGGCAGGT CTAGAATTCA ATCGC

```

(2) INFORMATION FOR SEQ ID NO:1373:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1373:

```

GAATTCGGCC TTCATGGCCT ACAAGACCAT CCTGGCCAAC ATGGTGAAAC CCTGTCTCTA      60
CTAAAAAATA CAAAAAATT AGCCAGGCAT GGCAGCGTGT GCCTGTAGTC CCAGCTACTC      120
AGAAGGCTGA GGCAGGAGAC TTGCTTGAAC CCAGGAGGCA GAGGCTGCAG TGAGCCGAGA      180
TCGCGCCATT GCACTCCAGC CCGGGCGACT GAAGAGACTC CATCTCAAAA AAAAAAAAAA      240
AAAAAGATGA GCCTTTTCTG GGAAAGTGGA AAAGACAGAG AAGCCTCCTG ACAGCCAAGG      300
AGACCAGCAG CCAGTAGAGC AGGTGTTGTA ACAAGGCCGA GGCCCTCGAG      350

```

(2) INFORMATION FOR SEQ ID NO:1374:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1374:

```

GGAAAAATCA AGGAGACATA TTACCACCAA AAGAACAATA ATTCCTAGA AGTGCAAAT      60
AAATAGAGAC TATACACTGC CTTACAGATA ATTTAAAGTA ATTGTTTTAA GGAATCTCAG      120
TGAAC TTCAA GAAAATACAG AGAATCAGTT CTATGAAATC AGGGAAACAA TAAATCAACA      180
AAACGATAAA TTTAACAGGT TGAAATCACT AAAAGAACCA AACAAATTTT GGGGCTAAAG      240
AATACAATGA ATGAAATGAA AAATACTCTC GAG      273

```

(2) INFORMATION FOR SEQ ID NO:1375:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1375:

```

TGTGGACTAA AAAAGATGCT GGGAAAAAAG TTGTTCCATG TAGACATGAC TGGCATCAGA      60
CTGGAGGTGA AGTTACCATT TCAGTATATG CTAAAAACTC ACTTCCAGAA CTTAGCCGAG      120
TAGAAGCAAA TAGCACATTG TTAAATGTGC ATATTGTATT TGAAGGAGAG AAGGAATTTG      180
ATCAAAATGT GAAATTATGG GGTGTGATTG ATGTAAAGCG AAGTTATGTA ACTATGACTG      240
CAACAAAGAT TGAAATCACT ATGAGAAAAG CTGAACCGAT GCAGTGGGCA AGCCTTGAAC      300
TGCCTGCAGC TAAAAAGCAG GAAAAACTCG AG      332

```

(2) INFORMATION FOR SEQ ID NO:1376:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 349 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1376:

```
GAATTCGGCC TTCATGGCCT AGGCTTCAGC AGCTTCCTAC GATCAGCCGA AGAAAGCAGA    60
AGCTCTGGAG GCTGCCATCG AGAACCTCAA TGAAGCCAAG AACTATTTTG CAAAGGTTGA    120
CTGCAAAGAG CGCATCAGGG ACGTCGTTTA CTTCCAGGCC AGACTCTACC ATACCCTGGG    180
GAAGACCCAG GAGAGGAACC GGTGTGCGAT GCTCTCCGG CAGCTGCATC AGGAGCTGCC    240
CTCTCATGGG GTACCCTTGA TAAACCATCT CTAGAGAGGA CATCCCTGCT GGGCTGCTGT    300
GCAGAGTATA AGATTTTGGA CTTGTTTCATG TCCCTCTCA CCCCTCGAG    349
```

(2) INFORMATION FOR SEQ ID NO:1377:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 437 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1377:

```
GAATTCGGCC TTCATGGCCT AAATATGTTG AAATAGGTTA GAAAAGGAGG TGAATATTAT    60
GGGCTGTTGT CATTGTGAAA TTCTGCAGTA ACTTCAGCGT TGAGGGTTTT TTTTGTTTTT    120
GTTTTGTTT TGAGTTTTGC TTAGTGAAAT CAAAGAGTTG TTAGTCTGTC TGTGGGTGTT    180
TAAGAGACAG GATCTCACTC TGCTGCCAG GCTGGAGTGC AGTGACAGCCA CGAATGCCTG    240
GGCTCCAGGC CCTCCTGAGT AGCTAGGACT TACAGGCATG CACCACCACA CCGATTTTTT    300
TATTTTTTTA TTTTATTTT TTTTAGTTT TAGAGGTGGT GGGGGGGTCT CACTGTGTCT    360
GCTTCTGGGC TCAAATGATC CTCCTGCCTC AACCTCCCAA AGTTCTAGAA TTACAGAGGT    420
GAGTCACCAC ACTCGAG    437
```

(2) INFORMATION FOR SEQ ID NO:1378:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 267 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1378:

```
GAATTAAAGC ACTGCCTCTA TTCAGGCTGC CGAGGCACTG CTTTAATTTT TTGAAAGATT    60
CACCGCGTCT TCTTGGATTT CAAGAAAAAT CCCGTTAAGA ATTGAGGGGC TCTCTTCTTC    120
CCCTCCTGAC GTGAGTGTA CTAATTCCT GGTATGTCT CTTTCCTTTT GGCCTACATC    180
CTTTGTCTGT TAGGTGCTTC CACATCCTTA TGTCTTAAAT GGCCAAAATA CGTCACCCCC    240
ACTGCCAAAA CAAACAGATC ACTCGAG    267
```

(2) INFORMATION FOR SEQ ID NO:1379:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 305 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1379:

GAATTCGGCC	TTCATGGCCT	AGAGGTGACT	AGAAGCGAAG	ATGGAGGTGG	CGCAGCACCT	60
CATCCCAACT	CATGCCACCT	GGGGAAGCAG	CTTCAGGCCT	TTCTGTTGTA	ACCTCAGCAG	120
AAACTTTGGG	GTTCATCCTT	TATCTTGAC	ATGCCCCAGG	GAGGTAAAGG	GACTTGCCTA	180
GGTTCATGTA	CAAACTTTCT	GCTTCCAGAG	CAGGACTTTA	TTGGGACACC	ATAAGGTTGA	240
GGCTGGGAGG	TACCAAGAA	TTCTGGGGA	TGGTATGTCA	TTGACTGTGG	GTAGAGGGGC	300
TCGAG						305

(2) INFORMATION FOR SEQ ID NO:1380:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 206 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1380:

GAATTCGGCC	TTCATGGCCT	AGGCTTGGTT	GCCTCTGAAA	GGAGGGAAAG	TCTCTTGGTA	60
AATTATCTCT	TTTGTGCTGT	TTGCTGTTTC	TCTGCTACCG	TCTTTGCAGT	TCTCCTCTCA	120
CTGTTTGACG	GCTTTCATAG	TAAGGTTTGG	CGAGAAATGT	TCCAAACATC	ACATTTTGGG	180
TTCTAGGCTG	TCACCCAGG	CTCGAG				206

(2) INFORMATION FOR SEQ ID NO:1381:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 496 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1381:

GAATTCGGCC	TTCATGGCCT	ACTCCTCGAT	GCTGATTCAT	ATCCTACTGC	CCATGGTTTT	60
CTGCGTCTTG	CTCATCATGG	TCATGTGCTA	CTTGAAAAGT	CAGTGGATCA	AGGAGACCTG	120
TTATCCTGAC	ATCCCTGACC	CTTACAAGAG	CAGCATCCTG	TCATTAATAA	AATTCAAGGA	180
GAACCCTCAC	CTAATAATAA	TGAATGTCAG	TGACTGTATC	CCAGATGCTA	TTGAAGTTGT	240
AAGCAAGCCA	GAAGGGACAA	AGATACAGTT	CCTAGGCACT	AGGAAGTCAC	TCACAGAAAC	300
CGAGTTGACT	AAGCCTAACT	ACCTTTATCT	CCTTCCAACA	GAAAAGAATC	ACTCTGGCCC	360
TGGCCCCTGC	ATCTGTTTTG	AGAACTTGAC	CTATAACCAG	GCAGCTTCTG	ACTCTGGCTC	420
TTGTGGCCAT	GTTCCAGTAT	CCCCAAAAGC	CCCAAGTATG	CTGGGACTAA	TGACCTCACC	480
TGAAAATGTA	CTCGAG					496

(2) INFORMATION FOR SEQ ID NO:1382:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 280 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1382:

GAAACTAGAC	AAGAAATCTC	AAGCCATGGA	GGAGCTAAAA	GCAGAGCGAG	AAAAACGAAA	60
GAACAGAACA	GCTGAGCTCC	TTGCCAAAAA	ACAGCCATTA	AAAACCACTG	AGGTCTACTC	120
TGATGATGAA	GAGGAGGAAG	AGGATGACAA	ATCCAGTGAA	AAGTCAGACC	GCTCATCAGC	180
AACATCATCG	TCTGATGAAG	AAGAGGAGAA	AGAAGAGATC	CCTCCCAAT	CCCAACCACT	240
TTCTTACCT	GAAGAATTGA	ATCGGGTTCG	ATCTCTCGAG			280

(2) INFORMATION FOR SEQ ID NO:1383:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1383:

GAATTCTAGA	CCTGCCTCAG	TCTCCCCGTC	ATGCTCCCTC	TGCCCCGCCC	TCAAAAAAAA	60
AAAAAACA	AAAAAACA	ACAGCACCTG	TCCAGGCTTC	CTTAGGTACA	TCTTCTTTGT	120
ATCCATTGGG	AGGCTCTGAG	ACTGGCCCCA	CTTGGTCCTA	AGAATCCCAA	GGTCTTTGGG	180
AGCGTCCAGC	ATGTTAATTA	GCGTATCATT	ACATACTGCT	ATCCCTTTCC	ATTTCTTTT	240
GTTCCATCAC	TCTCCTCTCG	AG				262

(2) INFORMATION FOR SEQ ID NO:1384:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 458 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1384:

GAATTCGGCC	TTCATGGCCT	ACAGATTATC	TTACACTGAA	CTGATCAAGT	ACTTTGAAAA	60
TGACTTCGAA	ATTTATCTTG	GTGTCCTTCA	TACTTGCTGC	ACTGAGTCTT	TCAACCACCT	120
TTTCTCTCCA	ACCAGACCAG	CAAAAGGTTT	TACTAGTTTC	TTTTGATGGA	TTCCGTTGGG	180
ATTACTTATA	TAAAGTTCCA	ACGCCCCATT	TTCATTATAT	TATGAAATAT	GGTGTTACAG	240
TGAAGCAAGT	TACTAATGTT	TTTATTACAA	AAACCTACCC	TAACCATTAT	ACTTTGGTAA	300
CTGGCCTCTT	TGCAGAGAAT	CATGGGATTG	TTGCAAATGA	TATGTTTGAT	CCTATTCGGA	360
ACAAATCTTT	CTCCTTGGAT	CACATGAATA	TTTATGATT	CAAGTTTGG	GAAGAAGCGA	420
CACCAATATG	GATCACAAAC	CAGATGGCAG	GACTCGAG			458

(2) INFORMATION FOR SEQ ID NO:1385:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1385:

GAATTCGGCC	TTCATGGCCT	AAGTTTTCAT	AATCTTTCTA	AGCAAATAAA	TTGAGCATGC	60
AGGTTTTTTT	TGCTTTCAGT	AAGTATGTTA	AAGATATTTA	TTGTACTTTG	GTTTTCTTTT	120
CTTTTTTTTT	TTTTTTTTTT	TTTGAGACTG	AGTCTCTGTC	ACCCAGGGTG	GAGGGCAGTG	180
GCCCAACCTC	AGCTCACTGC	AACCTCCGCC	TCCCATGTTC	CAGTGATTCT	CCTGCCTCAG	240
TCTCCCGAGT	AGCTGGGATT	ACAGGTGTGA	GCCACCACGC	CCAG		284

(2) INFORMATION FOR SEQ ID NO:1386:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1386:

GAATTCGGCC	TTCATGGCCT	AGTAGTTGTT	CCATGCTGTT	GTTTTTTGTT	TTATCTTTCA	60
TTGCCTTTCC	CTCTGCAGTC	AACATTATGA	CCTGGGGACT	CCAGCATCCT	TCAAGCAAGC	120
CATTTCCGAA	GAAGGTGAAA	AGAAGCCAGG	ATGATTGGCA	CCTCCTCCTC	CTCCTCCTCT	180
TCTTCCTCTT	CCCTTGCCCA	GCCCCCTCCT	GTGCGTGTGT	TTCAGACAAC	ACAGGAGCCA	240
GCACAGGAGT	GGAAATCCT	GTAGCGCAAC	TCGAG			275

(2) INFORMATION FOR SEQ ID NO:1387:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 296 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1387:

GAATTCGGCT	TCATGGCCTA	ATTGAATTCT	AGACCTGCCT	CGAGCCTCCA	AAAAGAGTAA	60
ATAAATAAAA	ATAAAATTGC	CTTTAAACAG	AAACACACAT	AAAACAAAGT	TATATATTGA	120
ACCTAACCCCT	GTATTTCTC	TGGGAACAGT	GGTTTCAGTAT	TCAATAATTC	AGGATTTGCA	180
GCAGCATAGA	ACTTAATGTA	ATGAGAGTCA	AGTATATATT	TCCCAGAACC	CTAAACTAC	240
TGCATATGTG	AACATATCTT	ATTCATTGAT	TATGTGGGCA	TATAGTGAAA	CTCGAG	296

(2) INFORMATION FOR SEQ ID NO:1388:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 548 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1388:

GAATTCGGCC	TTCATGGCCT	ACAACTTGTT	CTAGCTTGTG	ATCCCTCAAA	GTTGGGTCAT	60
ACGTTAGTGC	TAGATACTAG	AAATTTTCAC	TTTTCCACTG	ATCAGAGAGA	CAGACATTAA	120

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AAACAAAAAT AGAAGAAAGG AAAGCTTTCA CCTGTCAGCT TCTTAGCAGG GAACAATTGT      180
CTTGCCAAAA CTTTTTCCC TTTTCTCTCC CATTTTCTTT TACCCAATCC CTTCTTACTC      240
CTTGCCAGTG TGACCATGCG CATTGGTTTA AAAAGATATT CTTTCCTAAT CAGGGCAAGA      300
CAGGCAAGAA TTTTAAAAAA GGAAGGGAGG GAGGGAAGAA GGAAGGAAA ATAAATCCTT      360
TATTTTTTTA AACCTATTTG AAACCTCTTA AGAAAATTCC ACAATAATCA GGATTCTGT      420
AAATATTGTC AATATATATG AACATATTTG AAAAAGTACA GTTACAGTAT ATTTACATTT      480
TTGGAAGACTT TTCTTCAGGG CCAAGTAACA TGTTGTATCT TCCTTTTTCG TTGTGGGGGC      540
TACTCGAG
548

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(2) INFORMATION FOR SEQ ID NO:1389:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1389:

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GAATTCGGCC TTCATGGCCT AATATGTTCT TCACAGGGAT GAGTCCTAAA TATTTATCTT      60
CAGCCATGAC ATTTTCTTG AATCCAGAT TTGCATATCC AACTGCCAAC TTGATATCTC      120
ACTTGAAGA ACATCATCAC AAACCTAACT CATCTGAAGT TGGCTTCACA TTCTCCTCCC      180
CTATCACTAA CTGCCTTTC CACAGTATTC CCCATTTCGG TACATGGTAC CACCATTAT      240
CCAGTTGTTT AGACCTAAAC CTTCTAATT ATTCTTTTTC CTATCGTTAT CCCACATACC      300
TCGAG
305

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(2) INFORMATION FOR SEQ ID NO:1390:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1390:

```

GAATTCGGCC TTCATGGCCT ACTGGGTTAT TATTCTATTC CGTTGATCTA GCTAGTTTAA      60
AATTTTCTAC CTTTCTACC TGTTTTTGTT TAATAGTTTA CTGTTTTTAT CTGAACAAAA      120
TTCCTCTTTC AATAGTTGAT CTTGCTGAAT GTCTTCCCGT AGCATTGGGC TTCCTCAGGT      180
AACCTGGCAT TTTGGTTTGA ATAGAAGGGT TTTTATTGTC CTTTTTTTCT TTTTTTATTT      240
TGAGATATTT ATCTTTTCTT TATTTATTTA TTCGAGTCGG AGTCTACTCG AG
292

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(2) INFORMATION FOR SEQ ID NO:1391:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 217 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1391:

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GAATTCGGCC TTCATGGCCT AGGCGATCGT ATTAATTCTC AAGAAATTTT CAACAAATAC      60

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CACCTGGTTA ATGTTTTCAT TAAGGGCACA CATTCTTGCT ATTGAGCCAA TGTTGTTGGT	120
GATGGTGATC AAAGTCGCTC TGGCCAGGTC CTCTTTACTG ACAGCCTCTC GCTTCTCCTT	180
GCTCATCATG TTTCCAAAGC TTGAAGCCAC ACTCGAG	217

(2) INFORMATION FOR SEQ ID NO:1392:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 438 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1392:

CGGGAGGCTG AGGCAGGAGA ATCACTTGAA CCCGGGGGGT GGAGATTGCA GTGAGCCGAG	60
ATCAAGACAT TGCATTCCAG CCTGGGCAAG AAGAGGGAAG TTCTGTCTCT AAGAAAAAAA	120
AAAAAAAAAA AAAGCTACAC TTTGATCTTT GATTCAGTAG ATATCAGTAA GTATTTGCTG	180
CATTTCATGA GAGCCAACCA TGAGTAAGAC AGAAGTACTT CCTGTCCTCC TGGGCTTTCC	240
TGAGTAGCAG GAGAGATGGA CTAGGAAGAT GAGTGAAGTGC AGTAGCCTGT GCTGTTCTGC	300
GGTGATGGGA GAGGCCACTG AGAGTCCGGA CAGGCAGGCT GATATTGTGA GAAGGCTTCT	360
GGAAAAGAAG AACATTTAAG CTGAGAGTGA GAGTTGCGTA AGAATTCCC AGGGAGGGGA	420
AAGAGGGAAA CACTCGAG	438

(2) INFORMATION FOR SEQ ID NO:1393:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 272 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1393:

GAATTCGGCC TTCATGGCCT AAAACTTCCT AGGAGAAGGC AAGAGAAAGC CACCAGACCA	60
GAGCCGAGGA CTAAACTTTA AGGTCTGAAGA CGGCAGAGGG GCAGGTTCTC CCCTGCACAC	120
CCCAAGGCCT CTCCTGCACC CGCGAGGCCT TCCTTGAGCG CCCAGGCCCC CGAAATGCCT	180
GCCCTCCTTC TGACAAAAGG AGGGGGTAGG ATGTGAAGGG GTAGTGCAAC CAACAATGTT	240
TTTGTAACA CAACAACAAG GAAATACTCG AG	272

(2) INFORMATION FOR SEQ ID NO:1394:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1394:

GTGAAATTGT CAAATAAAAA TATGAAACT CAGCTGACAA GAGTAAATGT CCTTAAAGAC	60
AAAACAATTG AAGAGCTCAG GCAATCTTTA GCAATGTTG AAAGGATGAA AGAGAAGGCA	120
AATGTTGAAA CGATGAAAGA GAAGGCAGTT GTGAAAACAG AAAACTTGAA AACTACATTA	180
GACTCTGCAG AGCAAAAGGC AAGATCAGAC AAAGAGAAGA CCCAGCAGAT GTTAGATGCT	240

GTCACCTTCTG AGCCCCCAAC AGCAAAGAGC GCACCTGAAG AAGTATCAGG ACAAGAACAA 300
GAAGTACTCG A 311

(2) INFORMATION FOR SEQ ID NO:1395:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 367 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1395:

GAATTCGGCC TTCATGGCCT ACTGTGTGCT TAGTTTTTAA GACAACTTTG AAGTAAACAA 60
 TGAAATAAAA GATGTCACTA AAACCTCTGA GGCTCCTGAG CACATTTTGC TGATACAGTC 120
 TGTGGGGCTT GAGGAGACCG CATGTATTGT TCTTCTTTT GTTTTCTTC TGAGTTCTCA 180
 ACTGCGGAGA GCACCTGAAC CCCCTTTCCT TTTTGACCGC AGGCTGCACT TTGGGCCCCA 240
 GCCAGCCCTT TTTCTTTTTC TTTTCTTTT GTGTTCTTC CCTGGAGCGA CTCTGGGGAG 300
 TCCTGGATAT CCCGCTGCC CTTCCCCCTC AGCCCCATGC TTGTTCCAAC AGTCTCCACA 360
 GCTCGAG 367

(2) INFORMATION FOR SEQ ID NO:1396:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 333 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1396:

GAATTCGGCC TTCATGGCCT ACTTGGAAC GAAAGAGGGC CCAACCTACA ACTAAGAAGG 60
 GACAAACCTT GAACTAAGTA AGACCTTACA CACCCAGAAA GAACACTGGG CCCTCCTTCT 120
 TCAGGGACAA TGCAGTAGCC ACTTGGCTTG TGAATTTTAC TGAAGGCTAT TTCCTGTAAC 180
 TTGCTAGTTA ACTTAGTTTT GTATTTCAGG CAGAGGTGCG CTCTGTAATG TTGGGCCTTT 240
 GACTTCACAG TACTGGAGAG CTGTTACAC AGATGTTTAG ACCTTCTCT CTCTCTCTCT 300
 TTTCTTCTTT CTCAACAACT CTTATCTCTC GAG 333

(2) INFORMATION FOR SEQ ID NO:1397:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 356 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1397:

GAATTCGGCC TTCATGGCCT ATAGGCCATG AAGGCGAGAT ACAGCAGCTG CTGCAGAACG 60
 TCAAGTCTGA GTTGGAGATG GCCCAGGAAG ACCTGTCCAT GACCCAGAAG GATAAATTTA 120
 TGCTCCAGGC AAAAGTGTCT GAGCTGAAGA ACAACATGAA GACCCTGCTC CAGCAGAACC 180
 AGCAGCTCAA GCTGGACCTA CGCCGCGGCG CGGCCAAGAC GAGAAAGGAG CCGAAAGGCG 240
 AGGCCAGCTC TTCCAACCCT GCCACGCCCA TCAAGATCCC GGACTGCCCA GTTCCCGCCT 300

CGCTGCTGGA GGAGCTGCTG AGACCACCGC CCGCCGTGAG CAAGAGCCCC CTCGAG

356

(2) INFORMATION FOR SEQ ID NO:1398:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 447 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1398:

GAATTCGGCC	TTCATGGCCT	AATTCTATGA	GGTATTATTA	TCACTATTTT	ACAGATGAGT	60
AAACTAAGGC	TCACAGAGAT	TAAGTGGCAG	AACTGAAATT	CTCCATATCT	TTTGTATTCC	120
AGATTTATTC	TCTTAATCAT	GATATGATTT	TGTCTCATAT	AATCCAATAC	AATAAATAAG	180
GAGGTCAGGC	AGTAGGAGGT	GAAAGTTGGAG	AGACTGGGAG	ACCTATCAGG	AGGGGTCATT	240
TATGCCTGGC	TAGGAGTTTG	GACTTTATGC	TGAGGCTATG	GGAGCACTAT	TAAAGTGATT	300
CTAGCACTGC	AAAGTTATGA	TTAGGTTTAT	CAGCCAAAGG	AAAAAAAAAG	ATCTTGGTGG	360
TCACAGTGCA	GGTAGATACG	ACATAATCGA	GAAATGTGAA	GAATGCAGAA	TCAAGAGTTT	420
GGTGCTGGAC	AGAGAGAGGA	ACTCGAG				447

(2) INFORMATION FOR SEQ ID NO:1399:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 428 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1399:

GAATTCGGCC	TTCATGGCCT	AATTGAATTC	TAGACTCTTT	TAAATTTTCT	GCATTTGCCT	60
GAAAAGCACC	CCTGTAAGAA	TAGATTTCTC	ATGGCTCTAA	AAATTATTCC	CAAGAATACC	120
TTACTTG GTT	CAAAAGCAGA	CTGTTTCTCT	TCATTTTCATC	TCAAATCAGA	CTTCTGGGCA	180
AGATGTTCTT	TAGAGTAAGC	AAACCTACAA	CCTAAAAATC	TCTTCAAGAG	GCATCTCTGG	240
TCTTGTGACA	AGACCTCTTC	AAAAAACCAC	AGTAAAACTC	CCCTCCCTCC	AGTTGGCCAC	300
CAGTCTGCCA	CCAAACATGA	ACAAATTCTG	CTGCTAATCG	GTTTCCCTTG	TGATCTGGTT	360
CCTGAGGTCT	TCGGATCTGT	GCAATGAATT	ATTTATTGTT	TTATTAAACC	GACAGTGGTG	420
TGCTCGAG						428

(2) INFORMATION FOR SEQ ID NO:1400:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 276 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1400:

GAATTCGGCC	TTCATGGCCT	ACTAGACCTG	CCTCAGGGTG	TTCTGTGGTT	TCAGGTGGAA	60
GGTGGAGGGC	CTCGGAGACC	AACTGTGAGT	TAGCGGGGGT	TTAGAATCTG	ATGGGAAGAG	120
GGCAGAGACA	ACAGGTTCGA	AAGAGTCAGG	GCTCCTGGGA	CCTGGGAAGT	AAAGAGTAAA	180

CCTGGGGCAG TGGGTCAGGC CAGTAGTTAC ACTCTTAGGT CACTGTAGTC TGTGTAACCT 240
TCACTGCATC CTTGCCCCAT TCAGCCCGGC CTCGAG 276

(2) INFORMATION FOR SEQ ID NO:1401:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1401:

GAATTCGGCC TTCATGGCCT AGCCACCGTG CCTGACCTAC TTATTCTTTT TCCTGTTTCA 60
CATCTAGTGT ATGATACGAT TTGCTTATTT GTTTATGTTT CATCATCTGT TCCCCACCC 120
CAGCCCTGGC CCCCTTGCTG GAACGCAAGC TCCAGGCAAA GCTATTTTAC CGTTGCTGTT 180
TTCCAAGGGC CTCGAACAGT GCCCGGCACA TAGCAAATCC TCAGTGAACA TTAGAGGAAT 240
AAGTGATTCA AGAATAGAGC TGTTAGAAGG TGTTCCTGGAG GAAGACGCAT CCGGCTTCAT 300
CCCTGGCACC ATCGAG 316

(2) INFORMATION FOR SEQ ID NO:1402:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 342 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1402:

GAATTCGGCC TTCATGGCCT AAATTCTCCA GCAAAATGAG GATGAAAACC AGGAAAGAAG 60
AAGAAATGGG ATCCATAAAA CAGTGGACCT TACTTAGGAT GTCTCATTCT AGAGTGACAG 120
CCAAAAGGGT ATCTCACCTT AGAGTGACAG CTATCCAGCA GACTAATTTC AGATGAGAGC 180
ATACTGTCTC GGGCTTTCTG GGAAGAATGT GCATTCAGTG CCATAGATAG TATCACTGAA 240
GAGCTGGGAT GCTTGAGAAG ATTATTTAGT CAAGAAAAAA GAAAGACAAA TCAACAATAT 300
GTCAAAAAAT TCAGGTCCAA TTATAGAGCA AAAGGGCTCG AG 342

(2) INFORMATION FOR SEQ ID NO:1403:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1403:

GAATTCGGCC TTCATGGCCT AAGGCTAAAA AGAAGGAAAA AGAAAAGGAA AAAAAGGAGG 60
AGGAGAAAAT GGAAGTGGAT GAGGCAGAGA AAAAGGAGGA AAAAGAGAAG AAAAAAGAAC 120
CTGAGCCAAA CTTCCAGTTA TTGGATAACC CAGCCCGAGT TATGCCTGCC CAGCTTAAGG 180
TCCTAACCAT GCCGGAGACC TGTAAGTACC AGCCTTTCAA ACCACTCTCT ATTGGAGGCA 240
TCATCATTCT GAAGGATACC AGTGAAGACA TTGAGGAGCT GGTGGAACCT GTGGCAGCAC 300
ATGGCCCAAA AATCGAGGGG GAGGTAACCT GAG 333

(2) INFORMATION FOR SEQ ID NO:1404:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 422 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1404:

```

GGGCCCTGGG  CCCCAGCCCC  CAGCCCATCC  GTGGCCCAGG  CACTGGGGGG  CTGAGGTCCT      60
CTGAGAAGGG  ACACAGGGCC  GGGGGGCTCT  CTCAGCCCAT  CAGCAGGAGA  GGACTGACTC     120
CAGAAAAATC  AGCGTTTGTA  CCCACTCAGG  CTGCCAAGAC  CTGTGTCCGT  CCTTCCAAGC     180
TCAACCTTCA  GAGTTCATGA  GGCCCTTGC  CCAGAATGTC  CACAGAGTTC  ATGAGGCCCC     240
TTGCCCGGAA  TGTCCACATT  TGAAACCTCC  CAACACCGAG  CCCCATTTC  AGTATAACCA     300
GGAGGGAAAA  TGGTGCTTGA  AATAAGCATG  CCACAAAGGA  AAACCTGCTT  TCTCGAAATG     360
GGCCCTGGCC  GCCCAGGCC  TGACCTCCCC  GGCCAGGATG  GAACGTTCCA  GAAACCCTCG     420
AG                                                    422

```

(2) INFORMATION FOR SEQ ID NO:1405:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1405:

```

GAATTCGGCC  TTCATGGCCT  ACTGGGGTCC  AAACCTGGATA  TCTTGGTGGA  GAACATGGGG      60
AGGCTCAGCT  TTGGGTCTAA  CAGCAGTGAC  TTCAAGGGCC  TGTGAAGCC  ACCAATTCTG     120
GGGCAAACAA  TCCTTACCCA  GTGGATGATG  TTCCCTCTGA  AAATTGATAA  CCTTGTGAAG     180
TGGTGGTTTC  CCCTCCAGTT  GCCAAAATGG  CCATATCCTC  AAGCTCCTTC  TGGCCCCACA     240
TTCTACTCCA  AAACATTTCC  AATTTTAGGC  TCAGTTGGGG  ACACATTTCT  ATATCTACCT     300
GATGGACACT  CGAG                                                    314

```

(2) INFORMATION FOR SEQ ID NO:1406:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1406:

```

GAATTCGGCC  TTCATGGCCT  AATTGAATTC  TAGACCTGCC  TCGACTGCCC  CAAACCTGAC      60
CCATCCTCAG  ACCCCCACCC  CCGTCACCGC  TCCTCCAAT  GATTCTCTCC  TCTGTCTAGTC     120
CTGTCTACT  TTCCAAATCC  TCGCTGCTC  CAAACCTGAC  CCATCCTCAG  ACCCCCACCC     180
CCGTCACCGC  TCCTCCAAT  GATTCTTCT  TCTTTGATCC  TGCCAACTTT  TCCCAACAG       240
CACCGTAATC  CTCCCCAAA  TCATCACAAT  CCTCCACCAT  ACAATCCCGC  GTTCTCGAG       299

```

(2) INFORMATION FOR SEQ ID NO:1407:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 199 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1407:

GAATTCTAGA CCTGCCTCTC GCTGGAAATC AGCGTTGTAA GATGGACGCC CTGCTCAGCA	60
GAGCTCATCT TTCTAGAAAG GCACCTGGCC TTGGAAGGCG AGTGAGGAAC TGTCATAAGG	120
ACTTTTCTT CCCATGTTGC TTTTCAGGAA AGCTTTCAGG ATGTGGAAAT GATGTTTCAG	180
CTATTGGATG AGGCTCGAG	199

(2) INFORMATION FOR SEQ ID NO:1408:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 220 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1408:

GAATTCGGCC TTCATGGCCT AGTGATCCAG AAGAATTACC ATTAACCTTA TTTCAGAATT	60
TAGACTTCCA AATCAGGTTA ATCCTCCAAT TAAAAGAAAG ATTCAGAGTG AATTTTTTAA	120
AAGGCAAGGC AGTTATATGT TGCTTACAAG AACTAAACA TAAAGGCACA GATAAGTTGG	180
AAGTAAGAGG GAAAAAGACA TCGAATACT AAGTATAGAG	220

(2) INFORMATION FOR SEQ ID NO:1409:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 235 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1409:

GAATTCGGCC TTCATGGCCT AGATAAGCCC TTCAGAAACA CATGCACTGT TAATTCTGTT	60
TTAAATATAA TAAAAACCAT TTCACTTTGA CATTACCTAT TAAGTTTAC TGAAAGTCAA	120
AAGGCCTACT TACTGTGACT TCCAAAAAAG TATTTTGATA ATATTTTGAA AGAAATAAAT	180
AATTTCCCTT TGCATGAAAT TAAAAGCCAT GATAATAGGG AAAACATTAC TCGAG	235

(2) INFORMATION FOR SEQ ID NO:1410:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 577 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1410:

GAATTCGGCC	TTCATGGCCT	ACCCACGTAA	CGGCTTGGCT	GGGCACCCCC	GCTTGGCTTG	60
GTGGTCCTGG	TTTGGATTGG	CTTTACCTTG	GCATTCCTTT	GCTGGGCTTG	ACCTTTTCTT	120
GCTGGGCTTG	GCATTCCCCT	GGCTGGGCTG	GGTGTTTCCC	CGGTGGGGCG	TGCACTTTCC	180
CTGGGTGGTG	GAGGGGGCGT	GGGCTCTCCC	CGGGTGGTGG	GGGGACGTGG	GATCTCCCCA	240
GTTGGTGGTG	GGGGAGGGGT	CGTGGGCTCT	CCCAGGGTGG	GGTTTTGGCT	GGGATTGACC	300
TTTCTCCCCT	AACAGATTGG	AAACTCGTAA	TTTCCCGCTT	TTTGGTGAAA	CTCGTTGACA	360
GACACCATCT	GCTCGCTACT	ACCAGGCTGT	TGAAAGCAGA	TGGTGGCTGA	GGTTTCTCCA	420
AAGCTGGCTG	CCTCCCCTAT	GAAGAAGCCC	TTTGGCTTCA	GGGGCAAGAT	GGGCAAGTGG	480
TGCTGCTGCT	GCTTCCCCTG	CTGCAGGGGA	AGCGGCAAGA	ACAACATGGG	TGCTTGGAGA	540
GACCACGACG	ACAGCGCCTT	CACGGAGCCC	ACTCGAG			577

(2) INFORMATION FOR SEQ ID NO:1411:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1411:

GAATTCGGCC	TTCATGGCCT	AGGGATGCCT	CTCAGTGACC	CTTATATGTC	AGGTATGAGG	60
CGGATGGGGC	ATCTCTCTAG	TCCTTTCTAG	GGTTTTTACT	CTTCTAGTCC	CTTCAAGGGC	120
TGAGTGCTCT	GACTTTATGT	CTTCCCACGT	AGGCGTTGAC	CCTGCACTAT	CAGATCCTGT	180
GTTGGCCCGG	CGCCTTCGGG	AAAACCGGAG	TTTGCCCATG	AGTCGGCTGG	ATGAGGTCAT	240
CTCCAAATAT	GCAATGTTGC	AAGACAACCC	TCGAG			275

(2) INFORMATION FOR SEQ ID NO:1412:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 532 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1412:

GAATTCGGCC	TTCATGGCCT	AGTTTTATTT	TGCACTTGGA	AATATGTCAG	AAATCACTTG	60
AAGGCAAATA	AGATCTGGCC	CTCTGCAGAG	TTAAGTGGCT	AACATGCCCT	AGATCTCCAG	120
GCTTAGAGGC	TGCCCCTTTG	GTACCCATGA	TTCTCCAGGC	CTTCCAGGG	CAACATTGTC	180
CAGCATCTCT	CTCTCTCCTC	CCGCCGTCTT	CCTTTGGAAG	TTTGACTCTC	ATGTGTGGTG	240
CCCGATCCCT	AGGCCACCTG	TGCCGGCCAG	CCCCTGAACA	GATAAATCCT	ACTAAAGGTT	300
AATCCCAAGC	ACAAGCTTTG	GGCTGGTCCT	TCTGGGTTGA	TTGGCTTTCT	CTCTCTCTCT	360
CCTTTTTTGA	GATGGAGTCT	CCTTCTGTCT	CCCAGGCTGG	AGTGCAGTGG	CACAATCTCG	420
ACAATCTTGG	CTCACTGCAA	CCTCTGCCTC	CCGGGTTCAA	GCAATTCTCC	TGCCTCAGCC	480
TCCTGAGTAG	CTGGGATTAC	AGGTGCCCGC	CACTGCTTCT	GGCATACTCG	AG	532

(2) INFORMATION FOR SEQ ID NO:1413:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1413:

```
GAATTCGGCC TTCATGGCCT AGGCATCCAG GACAAAAGTT TGGAAAACAA AATAATGGAA      60
CTAAATAGTA CTAACCAAAG TATAGGGTGC TTTATGATTT ACAGAACTCT CTTACAGGCA      120
GTATGTTGTT CAGGCGCCAC TAGAACCCAC GTAATGGCAG AGGCTTCCTG TTCCATGTTT      180
AAAAACCTTT CCAAGGCTTT TCATTATTTT CTTATCTGTG GTACCCCTAG CTCCTGTGTC      240
TCTAGACACA CTGGCCTACC TTCAACTTCC TTGACCAGTG TAGCTTACAG TGTAAGCTTA      300
CCCCCGCCC CCACCCTCGA G                                     321
```

(2) INFORMATION FOR SEQ ID NO:1414:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 457 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1414:

```
GAATTCGGCC TTCATGGCCT ACATGAACGG AAGAGTGGAT TATTGGTCA CTGAGGAAGA      60
GATCAATCTT ACCAGAGGGC CCTCAGGGCT GGGCTTCAAC ATCGTCGGTG GGACAGATCA      120
GCAGTATGTC TCCAACGACA GTGGCATCTA CGTCAGCCGC ATCAAAGAAA ATGGGGCTGC      180
GGCCCTGGAT GGGCGGCTCC AGGAGGGTGA TAAGATCCTT TCGGTAAATG GCCAAGACCT      240
AAAGAACCTG CTGCACCAGG ATGCTGTAGA CCTCTTTCGT AATGCAGGCT ATGCTGTGTC      300
TCTGAGAGTG CAGCACAGGT TACAGGTGCA GAATGGACCT ATAGGACATC GAGGTGAAGG      360
GGACCCAAGT GGTATTCCA TATTATGGT GCTGGTGCCA GTGTTGCCC TCACCATGGT      420
AGCAGCCTGG GCTTTCATGA GACACCGGCA ACTCGAG                                     457
```

(2) INFORMATION FOR SEQ ID NO:1415:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 373 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1415:

```
GAATTCGGCC TTCATGGCCT AAAAATATCT AGTCACTGTT CTGTTTTACC CATTCTTTTA      60
AACTTTGTTT TTCAGTTTCA GTCAGGCTTC CAAGAAACT GATAACATTT TGATTGGTTG      120
GTTTCTCTTA TATCTTTTTC ATTTACAGT ACATTGTGAT TTAATGATTT ATCTCTTAAA      180
TCTTTTTCAG TTCATAGGTT CCTCCTGTCT CTTTCTTTT CTTGCACTT CATTGTGTC      240
AGAACCTTTG TCCTGTGGTT TCGCACAGTC TGGAGGAATT GGGGAAAGTG GCTGTCTAAA      300
CTGGTTCCCT CCTTCCATT ACTGCTGCAA TCAAGATGTT AGGGGGCCTA CAAGCAATAG      360
AAGCATCCTC GAG                                     373
```

(2) INFORMATION FOR SEQ ID NO:1416:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1416:

GAATTGGCCT TCATGGCCTA GTCATTTGCT TTTATATCAG ATATCTAATT AATCAAACCT	60
TCTGGTTAAG TGCCTCCAAT TATTAACAAT CCTGCTCAGA GTTAAGATTA GCATCCAAGG	120
ATTTTCCTCC ATATTTCTTT TCAGAGGCAA TGGAATTAC TAGTTTTTTA GCTCTTCAAC	180
TTTGGCTGAT GGTTTTAGTG GTGGTTATGC TATCTTCAGT AGTTTGGGA TCGCTCGAG	239

(2) INFORMATION FOR SEQ ID NO:1417:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 308 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1417:

GAATTCGGCC TTCATGGCCT AAGAAAGGTT AAGTTACTTG CCTGAGGTAA CTTAGCATTG	60
ATAGAATTAG GATTTGAACC TGGGTAGTAT GACTCTTAGG TCCCCATGAG CTGGCACACA	120
GGTTGCCAAT CCATCAGTTA ACCTTCCCAT CACTGGGTCA GAGAGCCAAG GAGCAGAAGG	180
GGGATAGAAC TTCCCGAGTA CCAAACTAAG GGGCTGAGCT GGGATCGCAA CCACAGGTTT	240
TGTTCCAAAG CTGGGGCTCT TTCGACAAGG CCATGCCCGC CTTGTCTCTT ATGCATGCTC	300
CACTCGAG	308

(2) INFORMATION FOR SEQ ID NO:1418:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 174 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1418:

GAATTCGGCC TTCATGGCCT AAACAAACAA AAAAAAATGT TTTATATGCA AAAGTTTTTT	60
GTATCATGCT TGTATAAATC CAGCTTTTTT TGTATCATGC TTGTATTTTT TTTTCTAGC	120
TGTTATTGCT TTTCTGATAA TAGTACTGAA TTTGGTGTTA TGGCTGGTCT CGAG	174

(2) INFORMATION FOR SEQ ID NO:1419:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 234 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1419:

GAATTCGGCC	TTCATGGCCT	AATTTTATAT	TATTGTTAAA	CACTGGGCTG	GAATTATTGT	60
TTTGGGAAAA	GGCCCATGAG	AGTTTTTGCT	CTGTGGGTTT	TTAAAGGTAA	GAATAAATTT	120
CGTGTGTTGAG	ATGTTTTTGA	TGTGCCTGTA	ACCAGAATAG	AAGTGCTTA	GATTATAACT	180
TTCTCTCAGA	TTGAGTAATT	CTGTTGTAAT	AAGTCAGCAT	ATGTTGCCAT	CGAG	234

(2) INFORMATION FOR SEQ ID NO:1420:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 157 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1420:

GAAAATATTT	TTACTTTTAT	AATTGATAGT	ATTTCTTAAC	TCTCAATTAA	AAAAAGTTTT	60
TAAGCATTTC	TGTGATATAG	ATACTATCAT	TTCATATTAC	ACAATGCTTC	TGATGATTTT	120
GCTGTTGTTG	TTAGGGACTA	CTCGAGGCAG	GTCTAGA			157

(2) INFORMATION FOR SEQ ID NO:1421:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 495 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1421:

GAATTCGGCC	TTCATGGCCT	ACCAGGATGA	GAGGGGAAAA	AGAAAGCCTC	CAGTGACTTC	60
AGTTGCTTTG	CCAGTTGTCT	TGGGATTGTT	TTACACCATC	CTTTACTTCC	CTTGCTCAGA	120
CCTCTCTGTT	TCACCATTCG	TCAGGCATTC	AGGAAAGTAT	CTGCTCACTC	CCACTTGGTG	180
AGTCCTCGGC	CTTGAGTTG	CTGACTCTCA	GGCGTTAGGC	AGCTGGATGA	CTTCCCCTT	240
CATGCAGCAA	AGGCCAGGGG	CTTGCGCGCC	TCTGCAGAGT	TGTTGCTAGG	GAGACTTGTTG	300
TCATCATCCA	CAACCTTGTT	TCTCACTTCC	TGGTTGGGCT	CATCTCTGAA	GAACAGGTCT	360
CCCAGCTTCG	CTCCTTATCA	CTGCATTGTG	AAGAGGAGGA	AAAGTGAATC	ACGGAGAGAG	420
AAAGGAAAGG	ATAGAATCAC	AGGCTGCATC	TGCACCTGAA	AAGTGACCCG	CGGAAACTCT	480
ATGGCGGATC	TCGAG					495

(2) INFORMATION FOR SEQ ID NO:1422:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 449 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1422:

GAATTCGGCC	TTCATGGCCT	AGACAAAAGT	AGAATTAGTA	AACTACTACA	TTGAGTACAC	60
TTTGTGTTAA	AATTCATAGG	GAAGACTTCT	TAAAAACAAG	TGAAATTGTT	AAACCCCCC	120
CTAAGCATT	CAGATGGCTT	ATAGCTGTCC	ACGGGGTTGG	TAGAGGTGGG	AAAGGGAAGG	180
GTTCTAGGCC	AGAATGTTCC	TATTTAGAAG	ACACTCAAAT	TACAGTCTGT	GTTATGTATG	240

TATACCATTT ATTCAATGCT ACTGTGTATA TAATGGAAAA CTTAAGTCCA GTTTGAAACA	300
TCTAGTCTTT CTAGGTGTTT AAAAGTGTAC AACAGCCTGT CGCAGTGGCG CATGCCTGTG	360
GTCCCAGCAC TTTGGGAGGC CGAGGCAGGC GGATCACCAG GTCGGGAGAT CGGGACCATC	420
TTGGCCAGCA TGGTGAAACC CCTCTCGAG	449

(2) INFORMATION FOR SEQ ID NO:1423:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1423:

GGGAGTTTAT TATTCATTAA CGAAATTAGC CCTTTTATCT GCCATATAAT TTGCAACAAT	60
TTTATATCAG CTTTTTTATT GTCTTTTGGC TGTGTTTATG AAAGTTATGG CCATGCAGAA	120
ATGTGGGATT TTATGTAGCA CAGTTGTCTC TTTTTTTTTT TTTTGAGACG GAGCCTAGCT	180
CTGTCACCCA GGCTGGAGNG CAGTGGCATG ATCTCGGCTC ACNGCAACCT GTGCCTCCCA	240
GGTTCAAGCA ATTCTTCAGT CTCAGCCTCC CAAGTAGCTG GGACTIONAGG CGCCACCCCC	300
CTCGAG	306

(2) INFORMATION FOR SEQ ID NO:1424:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1424:

GAATTCGGCC TTCATGGCCT AGAACTTTGT ACACCATGGA ATGTTCTACT TATTATTTTG	60
TGCTACAATA TGTGCTGTTT CTTTTGTTT AATTGCAGAT TGTCTACTAT GAAGCAGGGA	120
TTATTCTATG CTGTGCTCTG GGGCTGCTGT TTATTATTCT GATGCCTCTG GTGGGGTATT	180
TCTTTTGTAT GTGTCGTTGC TGTAACAAAT GTGGTGGAGA AATGCACCAG CGACAGAAGG	240
AAAATGGGCC CTTCTGAGG AAATGCTTTG CAATCTCCCT GTTGGTGATT TGTATAATAA	300
TAAGCATTGG CATCTTCTAT GGTTTGTGTT CAAATCACCA GGAAGAACC CGGATCCTCG	360
AG	362

(2) INFORMATION FOR SEQ ID NO:1425:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 194 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1425:

GAATTCGGCC TTCATGGCCT AGTATATCTG AAAAGTACAC TGTGTTTTGA AATTATAAAT	60
TTTCATTCTG AATGAGGTTT CTTTTTTTGA TTTTCTTTAA AAAAAAAAAA CAACCTGCTT	120
TGATTTGCTT TACATTCTT GCCCTCCATT TTTCTTATTA TATTGTAAAC ATTAGAAAAA	180

TGAACACCCT CGAG

194

(2) INFORMATION FOR SEQ ID NO:1426:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 393 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1426:

GAATTCGGCC TTCATGGCCT AGCCATGTAT TTTCTAATAT CCCTTGGACT TCATCTTTGA	60
CTCATGTTTT ATTTTGAAGT ATTGGGATTG TTTTTCAGTT ATCTTTCTGT TATTATTTCT	120
ATTAAATTCT GTTATGGTCA TACAACATAA TTAAATTCT TCTAAATTTG TTGAGGATTG	180
TTTTTGTTC CCAGAATATG ATGAATCTCT CATTGAATGT TGTATGTGCA GTTGAAAAGA	240
ATGTTTATTC TGCTGTTGGT GGGTAAAGTG TCATGAATAT AATTAGGAGA AATTAATGAT	300
AGTGTTAAGG TTTTCTATAT CCTTGCTTTT TTGGTGACT TATTTTATTG ATTATTGAGA	360
GAGAAGGGTT GAATTATCTA GTGCAACTC GAG	393

(2) INFORMATION FOR SEQ ID NO:1427:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1427:

GCGATTGAAT TCTAGACCTG CCTCGAGCCA CCCCCTTAAT GTGTGTGTTG ACAGTGAAGT	60
CCTTGGGTGG GGCCATGTGT GTGTTGTGA TGTCCTTAA GTTGATGCAG CTCTCGAG	119

(2) INFORMATION FOR SEQ ID NO:1428:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1428:

GAAAAAGCAG TAAAAATAGA AATCCATCTT CACCAAGCCT TTAAAGCAAT ATAAATTTAT	60
ACTGAGGTTT CTGCATACTA TAACACACAG AAGGAATTCC TAAAAATGTT CTTTATCCAG	120
CTGTCTACCC AAAGTTCTAT CATCCTGGCA AACTGCTCTC TCCAAAATTC ATCATCTTGG	180
ACTCTCTCTG AAACCTCAAC CCTTCTCTCT TATACCTGT TCTCCAACAT TCGAATTGT	240
TTAGTTTGTC TTCTCTCTAA TATAGCTATT TCTGTTTACC ATTTTGAGCT CTGGAACCTCT	300
AACCACTACT TACCACCAAA ACTCGAG	327

(2) INFORMATION FOR SEQ ID NO:1429:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 325 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1429:

```
GAATTCGGCC TTCATGGCCT AATCACATAT ACACAATTTA CCCATTTCAA GTGTACACGT      60
AGTGGTTTTTA GTATATTTAC AGATAGGTGC AACTATCACC ACAGTCAAAT TTAGAACCTT      120
TTCATCAACC CCAAAAGAAA CACCATACCC TTTAGGTATC GCCTCCCCTA TACTCCACCT      180
TCCAAGTGGT GAGCCCTAAG TTACCACTAA CCTTCCTATC TCTATAGATT TCCTTATTCT      240
GAACTTTTGA ATGGAATTAC AGTATCTGGT CTTTGTGCC TGTTTTTTTT TGACTAATGT      300
TTCAAGGTTT ATCCAGGCC TCGAG                                         325
```

(2) INFORMATION FOR SEQ ID NO:1430:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 226 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1430:

```
GAATTCGGCC TTCATGGCCT ACCTAACCT GGCAGAGTAC ATCATGCCTC CGAGAAGAAA      60
CGTCATTCCA CTCCTTTGCC GAGCACTGCT GTACCAAGCC ATACACCTGG CAGCAGCCAG      120
CAGTCCCCGC TCAACAGTCC TCACCCGGGG CCCATCCGGA CAGGCCTGCC TCCTGGGCAC      180
CAGCAGGAAT TTGCCGGACG AGCCAACAGC ACCTCCAACC CTCGAG                                         226
```

(2) INFORMATION FOR SEQ ID NO:1431:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 256 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1431:

```
GAATTCGGTT CATGGCCTAG GATTAACAAC TTGGAAGAGG CCTATGATAC TCCTGGTAAA      60
CCTCTTTGTG CTGCTCTCTG TGGTTTGTGT CCTCTTAAAT CTAGCTGGAT TTATCCTAGG      120
CTGCCAAGGG GCCCAGTTTG TGTCAGCGT GCCCAGGTGT GATCTGGTGG ACTTAGGTGA      180
AGGCAAGATT TGCTTCTGTT GTGAAGAATT TCAACCAGCC AAGTGCACAG ACAAAGAAAA      240
TGCTTTGAAA CTCGAG                                         256
```

(2) INFORMATION FOR SEQ ID NO:1432:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 240 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1432:

```
GAATTCGGCC TTCATGGCCT AGGTTGCGGT GAGTCGAGGT CTGCACTCCA GTCTAGGTGA      60
CAGAGCCAGA CCTGGTCTTT AAAAAAAAAA AAAAAAAAAA ACTGAATTCA AAAGATTAGC      120
TAAGACAAAT TGGGAAAAAA AACCAAAAGG GGAGTTGACC TAACAGATAT TAAGATGTAT      180
TTCTAAAGCC ATAGCAGCTA AAATAGTACA GTATTAATGT AGGGACAAAC AGAACTCGAG      240
```

(2) INFORMATION FOR SEQ ID NO:1433:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1433:

```
TCATTCTGAA CAAAAGGGAT TAGAGAAGAA AAATCTCTTG ATATAAGGCT TGAAAGCAAG      60
GGCAGGCAAT CTTGGTTGTG AATATTTTCT GATTTTTCCT GAAATCAAGC AGAAGATTGA      120
GCTGCTGATG TCAGTTAACT CTGAGAAGTC GTCCTCTTCA GAAAGGCCGG AGCCTCAACA      180
GAAAGCTCCT TTAGTTCCTC CTCCTCCACC GCCACCACCA CTCCTCGAG      229
```

(2) INFORMATION FOR SEQ ID NO:1434:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 268 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1434:

```
GAAATTGAAA CTCAAATCAG TTAGCTTCAA ACAAAAACGA AAGTTAGACC AAGGGAACGT      60
ATTAGATATG GAAGTAAAGA AAAAGAAACA TGATAAACAA GAACAGAAAG GAAGTGTGGG      120
AGCTACATTC AAATTAGGTG ACTCTTTGTC AAACCCAAAC GAAAGAGCCA TTGTTAAAGA      180
AAAGATGGTA TCAAATACTA AGTCTGTAGA CACGAAAGCG AGTTCATCTA AATTTAGTAG      240
AATTCTAACT CCTAAGGAGC ATCTCGAG      268
```

(2) INFORMATION FOR SEQ ID NO:1435:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 247 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1435:

```
GAATTCGGCC TTCATGGCCT ACAAGACTGT CTCAAAAAGA AAAGAAACAC AAATATTTGA      60
ACTCCAAATA TTCTTTGTGT GTAGAAAAAT CTAATGGATA ATTAAACTA GAGCAGAGAG      120
```

```

AAAAGCCTAG GAGTTGAGAG ATTTTGTAGAT ACGTGACTGA AAAGATTGGA AAAGGCTATC   180
AGTTTTAATG CTTGTGTCTG TCTTTGTGTG GGCCATGGTA TTTTGGAAGA GCACCATGGA   240
GCTCGAG                                           247

```

(2) INFORMATION FOR SEQ ID NO:1436:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 258 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1436:

```

GAATTCGGCC TTCATGGCCT ACCTATTTGT GCATCAAGTG GTTATCTAAA TAGTTTGAAA   60
GGATTGATAT ACTACATTAT ACGTCAAAAA TAAATAAATA AAATTAAGAA GACAGGGATT   120
CCAAGATTGT AGCTGACCAA GCTGTCTTGT TTTGCGTACA TCAACACTAT GCTGCTTCCA   180
ATATTCCTAG CCATTCCACA GGTAATGATT TTTCAACAAT CAAGAGAAAG TCATTCTTGT   240
ACTGTAACAT CTCTCGAG                                           258

```

(2) INFORMATION FOR SEQ ID NO:1437:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 415 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1437:

```

GAATTCGGCC TTCATGGCCT AAATCACTTG GATTGGTTCT CTAATTAAAA CACAAGCTAG   60
CTACCCAGTC TTGTATTTTG TATTTTAAAG AATTGTTAAA AAATAAATT TGTTTTGTAT   120
TTGTGTAAAG CATAGTCATA ATTCTAAATC AAACACACTG CATCGAGTTT ATCACTGAAA   180
TTCAGCATCT GCTTTTGTCC TCACTTTGTT ATCTTCTGCT CTCATCGATT ACAGGCGTGA   240
GCCACCGCGC CCGGCGGTAT GTTCCTTACC CTTAAGGACA AGAAATACCG TTTGAAAACA   300
TTCTTCTTGA ACATTAACAA ACTTAGAATG GTACATTTCAT TTAAGAATTA AAATAGGCAC   360
AAGAGGATTG AATTTTGGAA ATATGTTGCT TAGAAATTTG GGGGCAATTC TCGAG     415

```

(2) INFORMATION FOR SEQ ID NO:1438:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1438:

```

GCGATTGAAT TCTAGACCTG CCTCGAAGTG CCAGCAGCAG AGGAGATGAC AGTGACATAT   60
ACAACAGAGG CTGGGGTGGG CACTCCAGGA GCCCTGGAGC GGAAGACCTC AGGGCTAGGA   120
CAGGAGCAAG AGGAAGGGTC AGAGGGCCAG GAGGCAGCCA CTGGGAGTGG CGATGGGAGG   180
CAGGAGACAG GAGCAGCTGA AAAATTCCGA TTAGGATTAT CACGGGAGGG AGAGAGGGAA   240
TTGAGTCCGG AGAGTCTACA GCTCGAG                                           267

```

(2) INFORMATION FOR SEQ ID NO:1439:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1439:

```

GCGATTGAAT TCTAGACCTG CCTCGAGTCA TATCCCTGAG CAGTAGAGTA AATTAAATCC      60
TTTCTGAGAG TCTTAGATGT TTTTCTATGT CTCTTCTTTC TTATTCTCTC TCTGTTTCTT      120
TCTCTCACTC ACACACACAC ACACACACAC ACACACACCC CTAAAATTTG TTCTGAATGG      180
CCCACTAGGG CTGAATCATT TAGTGACTTC ATTGATTACT ATCCTGAGTT CTTCTTCTCG      240
CTCCAGACT AGTGAAAATA TTCCAGAAAG CTTTAATATT GGAGAAAAGG CAACGCTCGA      300
G                                                                    301

```

(2) INFORMATION FOR SEQ ID NO:1440:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 251 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1440:

```

GAATTCGGCT TCATGGCCTA GCATTGGAAG GTAATTTTTT AAAACAACAT TCATATTAAT      60
TTAAGGAGCA TAACAGATTC CAGTGAATGT TATGATTGCG TATTGTAACA TTATTCTAGT      120
AAATATGTTG GAGAAGAACA GTTCTAGTGA ATTAACTATG GTTTTGAAG GCAGCTATGC      180
TCACCATCAT ACCACCAACA CAACCATGGT TTTATTTTAT ATTATTTATT TTATTTTGA      240
GACAGAGTCT C                                                                    251

```

(2) INFORMATION FOR SEQ ID NO:1441:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 274 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1441:

```

GGAATTGGAA AGCGTTTCCT TGCCAACACC AGAAATCCAG TCAGATTTCT TACATAGCAA      60
AGTCGAAGCT CCTCCTTCAG AGGTGGCGGA TACGTTAGTA ATAATGACTG CTTCCAAGGG      120
TGTTGCACTC CCAGAACCCA AAGATAAGAT TTTGGAGACA CCTCAGAAAA TGACAGAAAA      180
ATCTGAATCA AAGACACCAG GAGAAGGGAA AAAGGAAGAT AAAAGCAGAA TGGCAGAACC      240
AATGAAAGGC TACATGAGAC CCACCAAGCT CGAG                                                                    274

```

(2) INFORMATION FOR SEQ ID NO:1442:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 274 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1442:

GAATTCGGCC TTCATGGCCT ACCTTTCTCC ATGTTTAACT GGGCTGCTCC CCATTCTCTG	60
CCTCCCTGTC TCCTCAGCCG CCAGAGCCCA GCCCCTCCGA CCAGGCCTCA CCCACCCCA	120
CCCGACCCCTT CCCTGAGGGT CCTTTCCTCA GTACCACTGA CACTTGGAGG CAGGAAACCC	180
AAACCTCCTT AACTAAGGCC TCATTACCT CGAAAGCAGT GGTGCTTCCC TCTGTTTCATC	240
CAGGGCCATA AAGCCACTGT CCCCTTAACT CGAG	274

(2) INFORMATION FOR SEQ ID NO:1443:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 257 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1443:

GAATTCGGCC TTCATGGCCT AATTGCGCCA TTGCACTCTA GCCTGGGCGA CGGAGCAAAA	60
CTCCATCTCA AAAAAAAAAA AAAAAAANN NANTCNGAAA CAGAAAAAAA AAAAAGAATA	120
CACTGCATTG CCATTATCTA GTCACCCTGT GTAATATAGC AGCAGAACTC ATGCTTCCTG	180
TCTTAAGTGT AACTTTGTAT CTGCTGACCA ACCTCTCTCC ATCCCCTCCT CCCACCTACC	240
CTCCCCAGTC CCTCGAG	257

(2) INFORMATION FOR SEQ ID NO:1444:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 258 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1444:

GAATTCGGCC TTCATGGCCT AGGAAGCATT AAATTGGGCC ATAGGAAGGA CAAGTCACAT	60
CCAGTTTGTG GATCAATGGT GGTTTGGGAA AGAAATAACA GAATTCTACT CCTACATGAT	120
AGGGAGAGAC TACAGAGGCC ACCTAGACCA ACAAACCTCTG CCATCAGGTC CTTGAATCAT	180
TGCTACCATG TCCTGGTGGT GGTTGTAGCA TTGCTAGTGA TATGTAAGTC ATTACCTACT	240
TATGCAAACC ATCTCGAG	258

(2) INFORMATION FOR SEQ ID NO:1445:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 638 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1445:

GGATGGCTAC	GGCAGGGGGT	GGCTCTGGGG	CTGACCCGGG	AAGTCGGGGT	CTCCTTCGCC	60
TTCTGTCTTT	CTGCGTCCTA	CTAGCAGGTT	TGTGCAGGGG	AAACTCAGTG	GAGAGGAAGA	120
TATATATCCC	CTTAAATAAA	ACAGCTCCCT	GTGTTCGCCT	GCTCAACGCC	ACTCATCAGA	180
TTGGCTGCCA	GTCTTCAATT	AGTGGAGACA	CAGGGGTTAT	CCACGTAGTA	GAGAAAGAGG	240
AGGACCTACA	GTGGGTATTG	ACTGATGGCC	CCAACCCCCC	TTACATGGTT	CTGCTGGAGA	300
GCAAGCATTT	TACCAGGGAT	TTAATGGAGA	AGCTGAAAGG	GAGAACCAGC	CGAATTGCTG	360
GTCTTGCACT	GTCCTTGACC	AAGCCCAGTC	CTGCCTCAGG	CTTCTCTCCT	AGTGTACAGT	420
GCCCAAATGA	TGGGTTTGGT	GTTTACTCCA	ATTCCNATGG	GCCAGAGTTT	GCTCACTGCA	480
GAGAAATACA	GTGGAATTCG	CTGGGCAATG	GTTTGGCTTA	TGAAGACTTT	AGTTTCCCCA	540
TCTTTCTTCT	TGAAGATGAA	AATGAAACCA	AAGTCATCAA	GCAGTGCTAT	CAAGATCACA	600
ACCTGAGTCA	GAATNGGTCA	GCACCAACCC	GACTCGAG			638

(2) INFORMATION FOR SEQ ID NO:1446:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 269 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1446:

GCGAGCTCGT	GTTTTAAAGG	ACCAAATAGA	AGTTTACCAG	GAGAGAAGTG	ACAGAAGTGC	60
TGTCTAGATA	GAGGAAGGGC	ACACACAGAT	GCAAGCATGT	GCAGAAATGA	GCAAACCACT	120
GAGACGCTGC	CTTGAGCTCT	GTGTCACACT	GCTATGTTGC	AGCCTGGGAG	GCTGTTCCCA	180
GTTGAGCCCT	TCGGAACCAG	CCATGAGATG	GCACGGGTAC	GCGGAAGGGA	GCAGTCTCCA	240
TGGCTGGGTG	GTGATGGGGG	CTTCTCGAG				269

(2) INFORMATION FOR SEQ ID NO:1447:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1447:

GGTCTCTCGC	CGCCGGAGGA	AGATGAGGCT	GAAGATTGGA	TTCATCTTAC	GCAGTTTGCT	60
GGTGGTGGA	AGCTTCCTGG	GGCTAGTGTT	CCTCTGGTCT	TCCCTGACCC	CGCGGCCGGA	120
CGACCCAAGC	CCGCTGAGCA	GGATGAGGGA	AGACAGAGAT	GTCATGACC	CCATGCCCAA	180
CCGAGGCGGC	AATGGACTAG	CTCCTGGGGA	GGACAGATTC	AAACCTGTGG	TACCATGGCC	240
TCATGTTGAA	GGAGTAGAAG	TGGACTTAGA	GTCTATTAGA	AGAATAACA	AGGCCAAAAA	300
TGAACAAGAG	CACCATGCTG	GAGGAGATTC	CCAGAAAGAT	ATCATACTTC	TCGAG	355

(2) INFORMATION FOR SEQ ID NO:1448:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1448:

GAATTCGGCC	TTCATGGCCT	ATCCTCTGCC	AAGACCAAAA	GGAAAGAAGA	AAAAGGGCCA	60
AAAGCCAAAA	TGAAACTGAT	GGTACTTGTT	TTCACCATTG	GGCTAACTTT	GCTGCTAGGA	120
GTTCAAGCCA	TGCCTGCAAA	TCGCCTCTCT	TGCTACAGAA	AGATACTAAA	AGATCACAAC	180
TGTCACAACC	TTCCGGAAGG	AGTAGCTGAC	CTGACACAGA	TTGATGTCAA	TGTCCAGGAT	240
CATTCTGGG	ATGGGAAGGG	ATGTGAGATG	ATCTGTTACT	GCAACTTCAG	CGAATTGCTC	300
TGCTGCCCAA	AAGACGTTTT	CTTTGGACCA	AAGATCTCTT	TCGTGATTCC	TTGCAACAAT	360
CTCGAG						366

(2) INFORMATION FOR SEQ ID NO:1449:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1449:

GATTTCTTAC	CCAAAGCTCT	GGAATTGTAC	ATTTATTTTT	TAAAACTCAA	AGAGGGAAAG	60
AGCCTTGAT	CATATGTGAA	CATTGTATCA	TAGGTAATGT	TGTACAGACC	CTTTTATACA	120
GTGATCTGTC	TTGTTCTGTC	AGCAAAAATC	CTCTATGGAC	ATAGGAGGTG	CTGTGTCCCA	180
TGCCCTCTTG	CCCTGACAGT	GTCCCATGGG	CCCCCTTCTG	CTCCCTGCCC	CCTCCCTGCT	240
ACTGCTGATG	CACTCCCCCC	CCTCGAG				267

(2) INFORMATION FOR SEQ ID NO:1450:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 431 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1450:

GCGATTGAAT	TCTAGACCTG	CCTCGAGACC	TGGGGGGAGA	TTGGGCTCCC	TTTCCTCATG	60
ACATCCTGCC	CTATCAGGAC	TCTGGAGATA	GTGGGAGCGA	CTACCTTTTC	CCAGAAGCTA	120
GTGAAGAATC	AGCAGGCATC	CCGGGAAAGT	CAGAACTTCC	CTACGAAGAG	CTGTGGCTGG	180
AGGAAGGCAA	GCCCAGCCAT	CAGCCTCTCA	CTCGCTCTCT	GAGCGAGAAG	AACAGATGTG	240
ATCAGTTTAT	AGGTTCTGTC	CGATCCAAAT	GTGCGACTTC	TCCTCTTCCC	ATCCCTGGGA	300
CTCTGGGAGC	AGCAGTGAAG	TCTTCAGATA	CTGCCCTACC	TCCACCTCCA	GTGCCTCCCA	360
AATCTGAAGC	CGTCAGAGAA	GAATGCCGGC	TCCTGAACGC	CCCACCTGTT	CCACCCCGAA	420
GCGCACTCGA	G					431

(2) INFORMATION FOR SEQ ID NO:1451:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1451:

GCCTGCCCCC	ACCTTACAGG	TCTGGGATGT	ACCTTTCCAT	CTGTTGCTGC	TTTCTTCTAT	60
GGGCCCCTGC	CCTCACTCTC	AAGAACCTCA	ACTACTCCGT	GCCGGAGGAG	CAAGGGGCCG	120
GCACGGTGAT	CGGGAACATC	GGCAGGGATG	CTCGACTGCA	GCCTGGGCTT	CCGCCTGCAG	180
AGCGCGGCGG	CGGAGGGCGC	AGCAAGTCGG	GTAGCTACCG	GGTGCTGGAG	AACTCCGCAC	240
CGCACCTGCT	GGACGTGGAC	GCAGACAGCG	GGCTCCTCTA	CACCAAGCAG	CGCATCGACC	300
GCGAGTCCCT	GTGCCGCCAC	AATNCCAAGT	GCCAGCTGTC	CCTCGAG		347

(2) INFORMATION FOR SEQ ID NO:1452:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1452:

GGGGCAGAAG	TTGAATATAC	CGGCAATTTT	GCGAGCACCC	AAGGAGAGAA	AACCAAGTAA	60
AAAAGAAGGA	GGCACACAAA	AGACATCTAC	TCTTCCTGCA	GTACTTTATA	GTTGTGGGAT	120
TTGTAAGAAG	AACCATGATC	AGCATCTTCT	TTATTGTGT	GATACCTGTA	AACTACATTA	180
CCATCTTGGA	TGTCTGGATC	CTCCTCTTAC	AAGGATGCCA	AGAAAGACCA	AAAACAGTTA	240
TTGGCAGTGC	TCGGAATGTG	ACCAGGCAGG	GAGCAGTGAC	ATGGAAGCAG	ATATGGCCAT	300
GGAAACCCCTA	CCAGATGGAA	CCAAAACAAC	TCGAG			335

(2) INFORMATION FOR SEQ ID NO:1453:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 627 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1453:

GCGATTGAAT	TCTAGACCTG	CCTCGAGATC	CCCATGACTC	CTACATCCTC	TTTTGTGTCT	60
CCGCCACCAC	CCACTGCCTC	ACCTCATTCC	AACCGGACCA	CACCGCCTGA	AGCGGCCCCAG	120
AATGGCCAGT	CCCCCATGGC	AGCCTGATC	TTAGTAGCAG	ACAATGCAGG	GGGCAGTCAT	180
GCCTCAAAAG	ATGCCAACCA	GGTCACTCC	ACTACCAGGA	GGAATAGCAA	CAGTCCGCCC	240
TCTCCGTCTT	CTATGAACCA	AAGAAGGCTG	GGCCCCAGAG	AGGTGGGGGG	CCAGGGAGCA	300
GGCAACACAG	GAGGACTGGA	GCCAGTGCAC	CCTGCCAGCC	TCCCGGACTC	CTCTCTGGCA	360
ACCAGTGCCC	CGCTGTGCTG	CACCTCTGTC	CACGAGCGGC	TGGAGGACAC	CCATTTTGTG	420
CAGTGCCCGT	CCGTCCCTTC	GCACAAGTTC	TGCTTCCCTT	GCTCCAGACA	AAGCATCAAA	480
CAGCAGGGAG	CTAGTGGAGA	GGTCTATTGT	CCCAGTGGGG	AAAAATGCCC	TCTTGTGGGC	540
TCCAATGTCC	CCTGGGCCTT	TATGCAAGGG	GAAATTGCAA	CCATCCTTGC	TGGAGATGTG	600
AAAGTGGAAG	AAGGAGAGCG	ACTCGAG				627

(2) INFORMATION FOR SEQ ID NO:1454:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 394 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1454:

GAAC TTTGAC	ACCTACACTT	AAATTCTGAG	TCATTAAACA	GGCCTACATT	TATCAACTGT	60
GGAAATATCA	GCCAGTTTTT	GCAAACCTCT	TCTTAGGACA	CTAAGTTGTT	TGCAGAAATC	120
ACTAGCATTG	ACTGACTCAG	CAACAATGTG	GTTATATTCT	TTGATTAAC	TAGTCCTTTT	180
TCTTGGTCAA	GAGTCAGTAG	ACAGGACTGA	AGCTTATGCC	CCTTGCCCCC	CCACCACCAC	240
TCCATTACTA	CCACCTTGGT	TTAGCCATCC	TTTCTTGATC	TGTTCTCCCC	ACTTCTACTG	300
TGCTACTCTA	CAGACTTGCC	CTGAATGTAA	GAGCAACAAT	TACCTTGTA	AGTCCAAGTT	360
GGGGCAGGTC	ACTCCCAAAC	TCCACAACCT	CGAG			394

(2) INFORMATION FOR SEQ ID NO:1455:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 381 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1455:

CAGATGTTCA	GATATATCTT	GAATTTTCTA	CGAACATCCA	AACTCCTCAT	TCCTGATGAT	60
TTCAAGGACT	ACACTTTGTT	ATATGAAGAG	GCAAAATATT	TTCAGCTTCA	GCCCATGTTG	120
TTGGAGATGG	AAAGATGGAA	GCAGGACAGA	GAAACTGGTC	GATTTTCAAG	GCCCTGTGAG	180
TGCCTCGTCG	TGCGTGTGGC	CCCAGACCTC	GGAGAAAGGA	TCACGCTAAG	CGGTGACAAA	240
TCCTTGATAG	AAGAAGTATT	TCCAGAGATC	GGCGACGTGA	TGTGTAAGTC	TGTCAATGCA	300
GGCTGGAATC	ACGACTCGAC	GCACGTCATC	AGGTTTCCAC	TAAATGGCTA	CTGTCACCTC	360
AACTCAGTCC	AGGTCCTCGA	G				381

(2) INFORMATION FOR SEQ ID NO:1456:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 309 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1456:

GGTGACGCCT	GCTTCACATC	TCTAATGAAC	ACCCTCATGA	CGTCGCTACC	AGCACTAGTG	60
CAGCAACAGG	GAAGGCTGCT	TCTGGCTGCT	AATGTGGCCA	CCCTGGGGCT	CCTCATGGCC	120
CGGCTCCTTA	GCACCTCTCC	AGCTCTTCAG	GGAACACCAG	CATCCCGAGG	GTTCTTCGCA	180
GCTGCCATCC	TCTTCCTATC	ACAGTCCCAC	GTGGCGCGGG	CCACCCCGGG	CTCAGACCAG	240
GCAGTGCTAG	CCCTGTCCCC	TGAGTATGAG	GGCATCTGGG	CCGACCTGCA	GGAGCTCTGG	300
TTCCTCGAG						309

(2) INFORMATION FOR SEQ ID NO:1457:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 374 base pairs
(B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1457:

GCACTATTAA	ACAGATACAA	CACAGAATAG	TATGTATAGA	GCATGGTATG	TAGCAGGGGC	60
CTATTCCTGT	CTGAGTGGAC	AAGGAGGCTT	CCTAGAGGAA	GCAACATTTA	AAGCTGAGGG	120
CTGAAGGATG	AATAGGATTT	AACCAAGTAA	AAGTAAGAAA	GGAAGTGGGG	AGCTGGAAAG	180
GGCATTCCAG	GAAGAAGAAA	CTGCATGTGC	AAAGGCCAGG	AGGTCAGAGC	GCACAGTGGA	240
TATGACGATG	TGGCTAGCTG	AGCATGTCTG	TGCAGTGTCA	ACTTTGTTGT	GAACACAGAG	300
GGAGGCTACT	GGGAAATTTT	AAGCAAGAGA	GTTGGAGTAT	GATCACATTT	GCATGTTAGA	360
AAGACACACT	CGAG					374

(2) INFORMATION FOR SEQ ID NO:1458:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 316 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1458:

GAATTCGGCC	TTCATGGCCT	ACATATTTAT	TATGTCAACC	TGTACTTCCC	TTTCCCTCTT	60
CCTCTCCCTC	TTTTCTCTCC	CTCTCCCTCT	CTCTCTCTTC	CTTCCTCCCC	TTCCAGGTAC	120
CCTAGATGAA	CCATGGGAGG	TCCTGGCTAC	ACAGCCATTC	TGTCTGAGAG	AGTCTGAGGA	180
CTCTGAGACC	CAGCCTTTTG	ACACGCACCT	TGAGGCCTAT	GGACCTTGCC	TGTCTCCACC	240
TAGGGCAATA	CCAGGAGACC	AACATCCAGA	GAGCCCAGTT	CACACAGAGC	CAATGGGGAT	300
TCCGGGCAGG	CTCGAG					316

(2) INFORMATION FOR SEQ ID NO:1459:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 417 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1459:

GGAACCACCA	ATTCCGGACA	CACTGGGATT	ACAGTTCCAG	GAAGGATGTT	ACCTTTGACG	60
ATGACAGTGT	TAATCCTGCT	GCTGCTCCCC	ACGGGTCAGG	CTGCCCCAAA	GGATGGAGTC	120
ACAAGGCCAG	ACTCTGAAGT	GCAGCATCAG	CTCCTGCCCA	ACCCCTTCCA	GCCAGGCCAG	180
GAGCAGCTCG	GACTTCTGCA	GAGCTACCTA	AAGGGACTAG	GAAGGACAGA	AGTGCAACTG	240
GAGCATCTGA	GCCGGGAGCA	GGTTCTCCTC	TACCTCTTTG	CCCTCCATGA	CTATGACCAG	300
AGTGGACAGC	TGGATGGCCT	GGAGCTGCTG	TCCATGTTGA	CAGCTGCTCT	GGCCCTTGA	360
GCTGCCAACT	CTCCTACCAC	CAACCCGGTG	ATCTTGATAG	TGGACAAAGT	GCTCGAG	417

(2) INFORMATION FOR SEQ ID NO:1460:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 222 base pairs
(B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1460:

GAATTCGGCC	TTCATGGCCT	ACTGAGAAAA	AAAATCAAAT	CTAATTTTAA	AATGAAGGTA	60
TTTAAAACCA	TGGCACAAGG	GAGCCTTATT	TATGGAGCTG	GTGGGAAGCC	AGGATGTTTC	120
CAATCCGCTG	CTCTTACAGG	AGCCTGTGCC	TCGCCAGTTC	TGTGCTGCAG	TGGGCAGCCA	180
ACTGAAGTGC	ATGAGTCAAA	TGCACGAAGC	AGCAGACTCG	AG		222

(2) INFORMATION FOR SEQ ID NO:1461:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 256 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1461:

GCTGCCTCCA	TACTGTTTTA	GGCAGCACCG	TTTATGTGAC	AGAGTCCGTG	TTTCTCAAAT	60
GCATGGTGTT	CCTCAGGTGG	AGAGTGGGCA	GAAGTTTTTG	CAACACTTTT	TTTTTAAGTT	120
ATTGGGTGCA	AAATCCCAAA	CCAGGATATG	TGTATGTCTG	TGTGTTTATG	TTTTTTATTT	180
GACCCTCCCC	TCTTTCAACC	TACCCCCTTT	TATATCTAAT	GTAGAAAAAG	CGAAATTGAA	240
TCTGGAAAAA	CTCGAG					256

(2) INFORMATION FOR SEQ ID NO:1462:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 250 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1462:

GGGGGTGGAA	GGCGTAGTGC	TTGAAATGCA	GGGATCTGGC	AGTCAGCAGA	AGGATCTGAG	60
ACCCAGTGTC	GAGGTTAAAA	AAAAAACAAA	AAACCAAAAA	CCAATGCAGG	AATCCAGTGG	120
GTGGAGTGAG	GGGATCTGGG	ATCCAGTGAT	GGGGGCCCCA	GGATCCAGGC	ATTGTGGTTG	180
TCAGGATCCA	GTGGTGAGGT	TTGTTGACAT	CCAGAATCCA	GCAGCTGAGC	TTGGAGATCC	240
AGGGCTCGAG						250

(2) INFORMATION FOR SEQ ID NO:1463:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 279 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1463:

```

GAATTCGGCC TTCATGGCCT AAGTTTATAA AAATTTTCAGC CAGAAAAACC CAGGTAAGGA      60
TTTTTTTTAT TTTTTTTTAA TTTTATTTT TAGACCAGGT GAGAAATCCTT TGTTCCTACTG    120
AGATTTTAAA ATTTAGTACA TTCAAAATTG ATATTTCTAC CATTTTCTCA GCCTGCTTGT      180
CTTCTTATCT TTGCAGCACT GCTTATTGCC ATCACTGCTT ATCTGTTTAC TCAACTTGAA      240
ACCTCAGAAT TGTCTTGAC CTCATCCCCA CATCTCGAG      279

```

(2) INFORMATION FOR SEQ ID NO:1464:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 266 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1464:

```

GAATTCGGCC TTCATGGCCT AGGCCATTTG GTTCTAAACT GCTTGACTAG TTTTAAGCTC      60
ACATAATTCC TTAAGCTTTC ATATTTTCTT AAATGCAAGG AAATGAATAT AAAAGCACTA      120
AATCTCCTGG TTCACTGGTA CAAAAATTAC AATGGTCAGT TCCCTTAGGT CATCAAAAAC      180
TAGTCACAAA AATAGTTCTT GTATTCAACC TGAATGTGCC ACAGGAAAAA AAAAATATTT      240
TCAAGATTTT CCAGCTCAGC CTCGAG      266

```

(2) INFORMATION FOR SEQ ID NO:1465:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 259 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1465:

```

GAATTCGGCC TTCATGGCCT AAACATTTTC TGAAAAACGT GATAGAAAGA AGGAGGAGCT      60
GTTTCTAGGA GGGAAATAAA TAATTTGGCA GGAGACTTTT TGAAGTAGAT ATCTATTGAA      120
TAACAAAGTG ACAATGTTCC CCATCCTCTC ATTTCCATT CCAATTTTAC TTCTCGTCCC      180
AATTCAAATC ATTCTTACTT ATGATCGGCG CTATGTCAGT GCCTCTCAGC TGGTCTTCCC      240
AGACCCAGTC ACCCTCGAG      259

```

(2) INFORMATION FOR SEQ ID NO:1466:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 332 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1466:

```

GCGCCTATCA CAAGCAGATC ATGGGTGGCT TCAAGGAGAC GAAGGAGGCT GAAGATGGCT      60
TCCGCAAGGC CCAGAAGCCT TGGGCCAAGA AGATGAAGGA GCTGGAGGCA GCCAAGAAGG      120
CCTACCATTT GGCTTGCAA GAGGAAAAGC TGCCCATGAC ACGGGAGATG AACAGCAAGA      180
CGGAGCAATC GGTACACCT GAGCAGCAA AGAAGCTGCA GGACAAAGTG GACAAGTGCA      240

```

AGCAGGATGT GCAGAAGACA CAGGAGAAGT ATGAGAAAAGT GCTGGAAGAT GTGGGCAAGA 300
CCACACCCCA GTACATGGAG AACAACTCG AG 332

(2) INFORMATION FOR SEQ ID NO:1467:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1467:

GCTCGAGATG TGCTGTCTTC CATGCAAAGT GGAATTTGAC AATCACTGTG CCGTGCCTTG 60
GGACATCCTG AAAGCCAGCA TGAACACATC CTCTAATCCT GGGACACCGC TTCCGCTCCC 120
CCTCCGAATT CAGAATGACC TCCACCGACA GCAGTACTCC TATATTGATG CCGTCTGTTA 180
CGAGAAACAG CTCCATTGGT TTGCAAAGTT TTTCCCCTAT CTGGTGCTCT TGCACACGCT 240
CATCTTTGCA GCCTGCAGCA ACTTTTGGCT TCACTACCCC AGTACCAGTT CCAGGCTCGA 300
G 301

(2) INFORMATION FOR SEQ ID NO:1468:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 436 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1468:

GAATTCGGCC TTCATGGCCT AGTGAAAAT GGGAGGCATG AAATACATCT TTTCGTTGTT 60
GTTCTTTCTT TTGCTAGAAG GAGGCAAAC AGAGCAAGTA AAACATTAG AGACATATTG 120
CATGTTTCAA GACAAGAAGT ACAGAGTGGG TGAGAGATGG CATCCTTACC TGGAACCTTA 180
TGGGTTGGTT TACTGCGTGA ACTGCATCTG CTCAGAGAAT GGAATGTGC TTTGCAGCCG 240
AGTCAGATGT CCAAATGTTT ATTGCCTTTC TCCTGTGCAT ATTCCTCATC TGTGCTGCCC 300
TCGCTGCCCA GAAGACTCCT TACCCCCAGT GAACAATAAG GTGACCAGCA AGTCTTGCGA 360
GTACAATGGG ACAACTTACC AACATGGAGA GCTGTTCGTA GCTGAAGGGC TCTTTCAGAA 420
TCGGCAACCA CTCGAG 436

(2) INFORMATION FOR SEQ ID NO:1469:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1469:

GAATTCGGCC TTCATGGCCT AGTCTGGGCA ACAGAGCGAG ACCTTGCTCT AAAAAAAAAA 60
AAAAAAAAAC AAAGTAAAAA AAGATATGTG TTTGATTAAT AACAGTCCTG ATTTAAACA 120
ACAGCACTGT CTTTGAGCC TTCACTCAGT ATGCAACTCC TTTATACAGA TTTTATTTTA 180
ATTTTATATA CACACTGCTT GAGAAGCATA TTTATTTCCG TTTTGTGTG TGCACTGTGGT 240

GGACAGGAAA CAGTGGTTCA GAGAGATGAA GCACCCTGCC CACCACATGC ACTCGAG 297

(2) INFORMATION FOR SEQ ID NO:1470:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 325 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1470:

GAATTCGGCC	TTCATGGCCT	AGGACCTATT	CTATCAGCAG	CATTTGACAC	CACTGATTAC	60
TCATTCTGCT	CTGGTGACT	TTCTTCAATT	GCTTCCAAGA	CACCATAAAT	TCTTCTGCCT	120
TGCTGGCTGC	CTTTGCTGGT	TCCTCCTCTT	CTCCCTGACC	TCTTAATGTT	GGAGAACCAC	180
AGGGCTTAGT	CCTTGGTCCT	CTTCTCTCTT	TTCTTTACAC	TGTGGTCCTC	AGTGAGGGAG	240
ATAGGTAGAT	CCACTGTCCC	GATCTTAACC	CAAAGAAAGA	CTTGCTGTCC	AGCTACGGGG	300
GCTGTGGTCA	GAAGGCAGCC	TCGAG				325

(2) INFORMATION FOR SEQ ID NO:1471:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 421 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1471:

GAATTCGGCC	TTCATGGCCT	ACAAAAGGAT	GGGAAATGCC	TGCATTCCCC	TGAAAAGAAT	60
TGCTTATTTT	CTATGTCTCT	TATCTGCGCT	TTTGCTGACT	GAGGGGAAGA	AACCAGCGAA	120
GCCAAATGTC	CCTGCCGTGT	GTAAGGTGAC	CAAAGATAAT	GCTTTATGTG	AGAATGCCAG	180
ATCCATTCCA	CGCACCGTTC	CTCCTGATGT	TATCTCATTA	TCCTTTGTGA	GATCTGGTTT	240
TACTGAAATC	TCAGAAGGGA	GTTTTTTATT	CACGCCATCG	CTGCAGCTCT	TGTTATTCAC	300
ATCGAACTCC	TTTGATGTGA	TCAGTGATGA	TGCTTTTATT	GGTCTCCAC	ATCTAGAGTA	360
TTTATTCATA	GAAAACAACA	ACATCAAGTC	AATTTCAAGA	CATACTTTCC	GGGTACTCGA	420
G						421

(2) INFORMATION FOR SEQ ID NO:1472:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 233 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1472:

GAATTCGGCC	TTCATGGCCT	AGTACTCCAT	CTCATCCATC	TCATGGTAGT	TCAGAAATGC	60
CTATATTCCT	TCTTAAATTC	ACCAGGATTT	TTGTTTTTTC	TTTCAACCCC	TTTTTGCCTT	120
TCTTATTTTC	ATCCTTCCAT	TTCACTCATT	TCCACTCATG	TTTAGCAGTT	TCTATCCTTT	180
TCTTTCTGG	CGTTTTAGCG	TCACACATAG	AAACCTATCA	CCATCAGCCC	TCG	233

(2) INFORMATION FOR SEQ ID NO:1473:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1473:

```

GCGATTGAAT TCTAGTTGCC TACCTACCAA ACTACCTACT GAACTTTTTA ATTTGAAGAT      60
ATTCTTCCTG GACTACTTGT TTATAGTTTA TTAAATGAAC TGCTCTATTT CTAAAAACTT      120
TATTTTAAA  GTCTTTCCC GTTTAGAATG CGGCATACTC TTGCTTGTGG GGTATATATC      180
TCTGATCGTG ATAACCTACCT ACCGAAAACC TTTCATGGCT CCTTGCCAAC TACAAAATTG      240
CGATATCCTC GAG                                     253

```

(2) INFORMATION FOR SEQ ID NO:1474:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 424 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1474:

```

GAATTCGGNC TTCATGGCCT ACCGCAAGTT CCTCCTGACC TTCAGGGAGC CTGACTTAGA      60
GAAGAAGTAC TCCAAGCAGG TAGACGACCG ATTTGGTGCC TATGTGGCGT GTGCCTCGCT      120
CGTCTTCCTC TTCATCTGCT TTGTCCAGAT CACCATCGTG CCCCCTCCA TATTCATGCT      180
CAGCTTCTAC CTGACCTGTT CCCTGCTGCT GACCTTGGTG GTGTTTGTGT CTGTGATCTA      240
CTCCTGCGTA AAGCTCTTCC CCTCCCCACT GCAGACCCTC TCCAGGAAGA TCGTGCGGTC      300
CAAGATGAAC AGCACCTGG TTGGGGTGTT CACCATCACC CTGGTGTTCC TGGCGGCTTT      360
TGTC AACATG TTCACGTGCA ACTCCAGGGA CCTGCTGGGC TGCTTGGCAC AGGAGCGTCT      420
CGAG                                     424

```

(2) INFORMATION FOR SEQ ID NO:1475:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1475:

```

GAATTCGGCC TTCATGGCCT ACTCTGTGTT GGTAAGTAAA AGCCCTCCAG CATAGGTATA      60
CACTTAGTTG TTCCTTCCAG TGGTATCAT ACTTCTTTTC TTGCCATAGT TACATGCTAA      120
CAACGTCCCA AAGCTATAGT TGCTCTGCA TTTTGTCTT AATTCTTGTA AGATAAACTA      180
ATAATACAGG GAGTAAATGT GCACTGTTTA TTAATTA AAA TCCCCGGGAC ACGGGATAAA      240
CTGAAGGAAA TCGTGCTTTT TGAAAAGTAG GTGTAGCTTG CCATGCTGCA TTGTCTTATA      300
CCCACAAAAC TCGAG                                     315

```

(2) INFORMATION FOR SEQ ID NO:1476:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 321 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1476:

```
GAATTCGGCC TTCATGGCCT AGCCATCATG TTTATTAGAA GGTGGATT TGGTGTGTGC      60
TCTAGACAGA TACAGAATAA ATACCTGCGC CTTGAGAACA GGAAGTCCAC GATTCATACA      120
AAGTGCTCAC TACAGGAAGT TGCTGTGTCA AAATCCAGGC AAGGACCCAA CTCCGGGCAG      180
CCCCCTCTCC CTGCTGACCT CAACAAGGGC TGTGCTATTG TTTTATTATT TATTATTTTA      240
TTTCTCTTTA TTATTATTAA TATTATTATT ATTTGCTTTT GCTGTGGTCA CTATCATTGG      300
CAAAGTTCCT TTTCCCTCGA G                                     321
```

(2) INFORMATION FOR SEQ ID NO:1477:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 215 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1477:

```
GAATTCGGCC TTCATGGCCT AAGCAAAGCT AAGTGTAATA CTAAAAAGCA GTTTGTTGCA      60
ACTGGTCATA AAAGTGATTA AATCTAAAGC TGGCATTAAAT AAGGAAGCAA GGTAATAAAA      120
CAAAAATATA AACAGCTTTG AGAAAGTACA CCTAATAACA AAATCTTGTA ACACAACAAA      180
TGAAAATCAC AAAAAATATA AGGAGACTCC TCGAG                                     215
```

(2) INFORMATION FOR SEQ ID NO:1478:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 291 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1478:

```
GAATTCGGCC TTCATGGCCT AATCGGTCTC CTTTGAGAG ATCACTAGAA CAGAAAAACA      60
ACCCAGATTA TAACTGGAAT GTTCGGAAAA CATAAAGGAC AGCTCGTAAA GGAGAGAGTA      120
AGAGTCACCA AACACGTGGA TATTTTGGT CTGATCCTAC AGTAGCCGGT TATCTAGACC      180
AGTAAGTGGA GTTTTGGACA TGCTGCTGCT GTCAACTCAC TGGCTGAAGG AGCACTCAA      240
GGAATGGGAG GCCTTTCACT GGGTCCAGCT CTGATTCCGA TCACTCTCGA G               291
```

(2) INFORMATION FOR SEQ ID NO:1479:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 514 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1479:

GAATTCGGCC	TTCATGGCCT	AGAGAAAGAA	ATGGCTCGAA	CAGAAAACAG	TGGTCTTGAA	60
AGGCAACGCA	ACAGTAGGTT	ACAAATAGCA	TTAGCTTTTT	CTTTAAAGAA	ATTCATTGTA	120
ACCAGTGAAG	GATAAGATTT	TAAATTAGAA	AAATGGAAAT	CCTATGAATA	AAAACTAGT	180
AAGCTTGAGA	GCAGAATCAC	TGTGGAAAAA	AAACAGATTG	AAAAATAACT	TGCAGGTATC	240
ATAGACAGGA	AATTGCCACT	AGAGAAAACA	GGAACTTGT	GATAGATAAA	AATGAAGTAT	300
TTTCATTGG	AACAAGAGAC	CAACTGAAGA	GAGATCAAGT	GAAGGGGGTT	TATTTTAATG	360
AAACACAAAG	ATTCTTGTTG	AAATCAAAGT	GCCGGAGCCA	GAAACAGGGC	TCAACCTTCA	420
AGATTAGAGC	TGTATTCAAG	TTGTTCAAGT	TGGCTCTCGG	TCCCAAAGCA	ACAGCAATGT	480
CACTAAGGTT	ACAAGTAAAA	GGTAAGCCCT	CGAG			514

(2) INFORMATION FOR SEQ ID NO:1480:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 194 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1480:

GAATTCTAGA	CCTGCCCCTC	CACTGCTCCC	CATACCCTGG	CACGATGCGT	TCCTGGTCAC	60
TGATCACCAT	CATTTTGGGA	AGAGAATCCC	AATCCCTGGC	ACCTGGGTTT	GCCTCATCCA	120
ACCATCCTTC	CCTTCTCAG	CTGCACCCCC	TCTGCAGATC	TGAAGACACA	CCTCACTCTT	180
CCAGGGCCCT	CGAG					194

(2) INFORMATION FOR SEQ ID NO:1481:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 385 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1481:

GACGCGCCCG	GCCTCCTCTT	TCATTTCAGT	ATACGTAATA	AGAAGTCAGA	AATTACCTTT	60
AACCAAGCCT	GGAAATCTCC	TTATCTAGAT	CATTATATTC	TTTAGGTACA	TTTTTACTT	120
TCTACATTAC	CACTCACAAC	AATATTGCTA	AATTTTTTCC	TCTAAATAAG	AAGGATTCCC	180
TTTTTCTAAT	AACACTTTCT	TTATTTTTCT	TTAACCCTTC	ACTGAAAGCC	CCCTCAAAAG	240
CTACCTGGCT	TATGCTAACA	GTATGTTTGA	TGTCCTTTCA	ATACTACTCT	GTTTCCATCT	300
GTCTAGCATC	CACCTGCCTC	CCAATCTCAA	AGTCTCCATC	ATATTTTGTC	AGTTTTTAGT	360
TTTTTTGTTA	TGGTGCAACC	TCGAG				385

(2) INFORMATION FOR SEQ ID NO:1482:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 376 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1482:

GAATTCGGCC	TTCATGGCCT	AGGTTCTGGG	ATAGCTGATT	GTTGGCCACC	CCCGCCCTGG	60
AATGGAAACC	CTGTTAGGCC	AGGGCCAGAG	CAGGTGGCCA	TGAAGCAAGA	CGGCAAAGGC	120
ATTGGAGGAT	GTCCCACCTC	CACACATACG	CCCAGGCATT	TCTTGGCTGG	GGAATGGTGT	180
TACAGGATCC	ACAAGCACAG	AGATGGGAAA	ACAGTGTGTC	TGGGGAACAC	CAAGAGTTGG	240
GGTTGCCTGG	AGGACAGATA	GACTCAGGGG	GGACATCCAG	AGGTAACACT	AGGTCCGCAG	300
GTGGGTTTCA	AGGCCCCAGC	TCTATCCCCT	TATTCCCAGC	CGGATTAAAG	AATAATCTGA	360
GTATGGTTCC	CTCGAG					376

(2) INFORMATION FOR SEQ ID NO:1483:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1483:

GAATTCGGCC	TTCATGGCCT	ATGGATCCAT	CATGGGACAA	TTACTAGTTA	TTTACTTTCC	60
TCCGCTTCAG	AAGGTTTTTC	AGACTGAGAG	CCTAAGCATA	CTGGATCTGT	TGTTTCTTTT	120
GGGTCTCACC	TCATCAGTGT	GCATAGTGGC	AGGCCTGGTC	AGTAATCTTC	TCTACTGTTA	180
TAGTACAGCA	GCTTTTAGGT	CCACTGATTG	CATTCTTAAT	TTGAGTATTT	AATATTTATT	240
TTATTAACCT	AAGGTTTTCA	TTTGTCATA	TAGCATGGTC	TCATAATTTT	CAAAAAATCA	300
GAAAACAGTA	GATGTTGGCG	TGGATGCAGT	GAACAGGGTT	ACTCGAG		347

(2) INFORMATION FOR SEQ ID NO:1484:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 709 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1484:

GAATTCGGCC	TTCATGGCCT	ACGAGAATAT	TGTGGAGAAC	TGGTCAGTAG	AAGAACAAGC	60
AATGGAAATG	GATTTGAGTG	TCCTTCAACA	GGTAGAAGAT	CTAGAAAGGA	GAGTTGCATC	120
AGCAAGTTTG	CAAGTGAAGG	GTGGATGTG	TCCAGAGCCT	GCATCAGAAA	GGGAGGACTT	180
GGTATATTTT	GAACATAAAT	CATTTACTAA	ATTGTGCAAG	GAGCATGATG	GAGAATTTAC	240
TGGCGAAGAC	GAAAGCAGTG	CACATGCACT	AGAACGGAAG	AGTGACAACC	CCCTAGATAT	300
AGCTGTAACC	AGGCTGGCTG	ATTGGAGCG	GAACATTGAA	AGAAGGTATC	TGAAGAGCCC	360
CTTAAGTACC	ACCATTCAGA	TCAAACCTGGA	TAATGTGGGC	ACAGTTACTG	TCCCTGCTCC	420
TGCACCATCC	GTTAGTGGTG	ATGGTGACGG	AATTGAAGAG	GATATTGCTC	CAGGGCTCAG	480
GGTATGGAGA	AGGGCATTAT	CAGAAGCTCG	CAGTGTGCA	CAGGTAGCTC	TGTGCATTCA	540
GCAATTACAG	AAATCAATAG	CATGGGAAAA	ATCAATTATG	AAAGTTTACT	GCCAAATCTG	600
TCGAAAGGGA	GATAATGAAG	AACTGCTTCT	TCTTTGTGAT	GGCTGTGACA	AAGGCTGTCA	660
TACCTACTGC	CATAGACCCA	AGATTACAAC	AATCCCAGAT	GCTCTCGAG		709

(2) INFORMATION FOR SEQ ID NO:1485:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 272 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1485:

GAATTCGGCC TTCATGGCCT ACTGTTTCAG AACTCCGTA CCTTTTCTT GTATGTAGCA	60
CGTATAAATG CAGCTGTCAT GCAGTTCCTT TCTTTTGCTA GAAAATTAGT CAGGAGGTAA	120
GATGAATCTT CCAAAGTTAT GTTAAATTTT GTTTAACTTG ACAAATTAAA CTTTGTTCTT	180
ATTAAACAAA TACGTAAACA AATACTGGAA AAGCAAAGCT TATATTGGG AGTAAAATGT	240
ATCTTAAAAT GCATGTTCAA CTTTGCTCG AG	272

(2) INFORMATION FOR SEQ ID NO:1486:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1486:

GAATTCGGCC TTCATGGCCT ACCGAGGACG AGGGGAAGAT GTCACGCAAG ATAGAAGGCT	60
TTTTGTTATT ACTTCTCTT GGCTATGAAG CCACATTGGG ATTATCGTCT ACCGAGGATG	120
AAGGCGAGGA CCCCTGGTAC CAAAAAGCAT GCAAGTGCGA TTGCCAAGGA GGACCCAATG	180
CTCTGTGGTC TGCAGGTGCC ACCTCCTTGG ACTGTATACC AGAATGCCCA TATCACAAGC	240
CTCTGGGTTT CGAGTCAGG GAGGTCACAC CGGACCAGAT CACCTGCTCT AACCCGAGC	300
AGTATGTGGG CTGGTATTCT TCGTGACTG CAAACAAGGC CCATCTCGAG	350

(2) INFORMATION FOR SEQ ID NO:1487:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1487:

GAATTCGGCC TTCATGGCCT AGTACCTGAA GGCCTTCAAG GTGGCCTACA GCCTTAATGG	60
ACACGAATTC GATTTCATCC ATGATGTAA TAAAAACAC AAGGAGTTTG TGGGTAATG	120
GAACAAAAAC GCGGTGCATG TCAACCTGTT TGAGACCCCT GTGGAGGCTC AGTACGTGAG	180
ATTGTACCCC ACGAGCTGCC ACACGGCCTG CACTCTGCGC TTTGAGCTAC TGGGCTGTGA	240
GCTGAACGGA TGCGCCAATC CCCTGGGCGT CTCGAG	276

(2) INFORMATION FOR SEQ ID NO:1488:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 595 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1488:

GAATTCGGCC	TTCATGGCCT	AGTGGAGATT	ACTTGGCACC	ACTCTCCTTT	CACAGAGCAG	60
AGTCTGAATA	GTCTTCAGAG	ATAGGCCTGT	GGGCCAGATT	GCCATCCCCT	ATGGACCAGA	120
AGCCAAGGAT	CTCTCTAGTG	ATGGTCAGAG	GGCCCAAATG	GCAGGGATAC	CCAGTGATGT	180
CAGGAGGAAT	AGTACAGACA	GAAGGTGCTA	AGCAGACAAT	TCAACTGCCA	TGTTTTGCCA	240
CCCCCTGTGA	GCAGGGATTA	GGTGTTCAGG	CCAGTATCTT	GGGCATGGGG	GAGCCTTTGG	300
CCAGAAGAGG	TATAAAGCTC	AGAAGTTTTT	CAGTCTGATA	ACTATTGATA	TAATTTCCAT	360
AGTGTGAGGG	AGCGGTATGC	TCTACCCTTG	TGTATTTAAG	GCAGGACAGA	GAAATTGAGG	420
ATGCCCTTGG	GGCTAGATCG	ATGATATGAC	CAGAAATCAA	AAAGGGAATG	CATTATTTAT	480
TGCTGTGTAA	CACTGTTAAG	AGAGGAGGTA	GTTAAGGGAT	GGATAGGCAC	ATAGAGAGGG	540
AAGGTCTCAG	GAGAAGGGAT	AGAAAGGAAC	TATGTTTACA	AGAACAACAC	TCGAG	595

(2) INFORMATION FOR SEQ ID NO:1489:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1489:

GAATTCGGCC	TTCATGGCCT	ACAATTTAAT	AGTATAACAA	ATCCCCTAGA	ATAGTAGAGG	60
AGAGAGGAAT	CTTCCCCTGA	TATGTTTTTG	TAATACTTCT	TCCTCCTCTT	CAGTCAATAG	120
GGAAATGTTT	GTTGAAAGAC	TACTTTGCAG	ACATTTAGAA	AGATACAGAG	TAAGTGTAA	180
ATGTCCCTCC	TTGTCTTGA	GGAGTCTCTA	GTCAGGCACA	GGTAGGACTA	AATGAAAAAC	240
AACTACAGAA	CTAAGTAGAA	GAGTGACAA	TAATATGGGG	AATGTGGAAC	ACTCGAG	297

(2) INFORMATION FOR SEQ ID NO:1490:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1490:

GAATTCGGCC	TTCATGGCCT	ACTTACTTTT	CCAAAGAATT	TTTTCCACCT	GGAATAAGAA	60
GAGAGGACTA	GTTGAAACAT	TTGAGCTGGA	GAGGCTTATG	GGCAATATGA	AGTGGGCCAA	120
ATTCTTGCAA	TACACCCTAT	TCAATTGAAA	GTACAGTGTC	TAAGGATAAG	AATACTTCTT	180
TAAAGACCAA	CAATTGTTT	AATGCAATCT	TAATTAGTAA	ATGGTTTACA	TTTTTCTAT	240
TGTTATTGGT	TTTAAATTT	GCTACCGCTC	GAG			273

(2) INFORMATION FOR SEQ ID NO:1491:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 660 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1491:

```

GAATTCGGCC TTCATGGCCT ATTGAATTCT AGACCTGCCT CAGGGTAAGG GAGATTTAAT      60
CTTTTTCTTT ACTATTTTCT AGTTTCTATG AGCATGGATT ACTTGTGCAA ATCAAAACAA      120
AACAAACGGA TGGCTCATCC GGCAAACATC CATGGGCAGG GTTGGTGTCT GGTGCTGGAC      180
GCAGAGATGA ATGGAGGGCT CTGGCCTCAG CGGCTCACAG TCTGGTGAGC ATAGACAGTG      240
CTTTCGATGT GAGAGCAGAC CTGAGTGTCG CCTGGGACTC CAGGCACAGT TCTCCCTGCA      300
GCTCACAGCA CTTACCCTTA CTGCACCATT AACTTCTACT CTAGCTCACT GCCTCTTAAC      360
TCTGAGCGCC TTGAAGGCAC AAAATGAGTC CCATCTGGGT CTTTAGCAGC TGGCAGAAAA      420
CCTAGCTCAA ACTCATGCTC TAAAAACCCC TGCTGAGGGA GTGGGCGAAT GCAGGCAGCC      480
CTGGCAGTGG GATCAAGTTC AGGGAGTGGC ACTGGAGGCA TCACCCCAAG GCTGAGAAGA      540
CCTTGAAGTG CTGTTTCAGG TTTTGCTGTC TCTCCCAAGG CATGACTCGG CCCAGGAGGA      600
GATGGGGCAG ATGCTGCAGA AGGAGGGTTC ATGCCCTCC ACTGCTGCCC ATGACTCGAG      660

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(2) INFORMATION FOR SEQ ID NO:1492:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1492:

```

GCTGTGCTAT CTGTTGTCCA GCATCTGACA CAGTTGGTTT TATATTTTGT CTGGTTTCTA      60
GTTATTAAGC AGGTTAAGTC TGGTTCCTGC TGTTCTATAT AGCAGGAAGC AAAGGTTCTC      120
TCATGAATTT TTAGCATAAT AACATAAGCG TGGATTCCAA AAATTCATTA CACAGATCCT      180
GGAAATCTGT TTACTATGTT TTATACATTC TGTGAAAGCT GGAGAATATA TATTTGTTTT      240
ACTATGTGTA TCGCAAATAA AATATCAATT TCATGTGCCA GAGAATTGAA TACATTATCA      300
AAGGGTCAAC TCGAG                                     315

```

(2) INFORMATION FOR SEQ ID NO:1493:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 356 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1493:

```

GGGACAACAA GCCCATCTGG ATGCACGCAG AGGAGCGGGA GGAAAGCAAG GATAAGCGCC      60
GGGACAGCGC CCCCTATGGG GAATACGGCA GCTGGTACAA GGCCTGTAAA GTAGACAGCC      120
CCACAGTCAA CACCACCCTG CGCAGCTTGG GGGCCCTATA CCGGCGCCAG GGCAAGCTGG      180
AAGCCGCGCA CACACTAGAG GACTGTGCCA GCCGTAACCG CAAGCAGGGT TTGGACCCCG      240
CAAGCCAGAC CAAGGTGGTA GAACTGCTGA AAGATGGCAG TGGCAGGCGG GGAGACCGCC      300
GCAGCAGCCG AGACATGGCT GGGGGTGCCG GGCCTCGGTC TGAGTCTGAC CTCGAG      356

```

(2) INFORMATION FOR SEQ ID NO:1494:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1494:

GAATTCGGCC	TTCATGGCCT	AGTAAAGGGA	TTTATAATAA	CATTAAAAAT	TTCGTTAGAT	60
TCCAGCTGAG	CACGAGTATA	GCAGCATTAA	CTTTAATCTC	ATTGGCTACA	TTAATGAACT	120
TTCTTAATCC	TCTCAATGCC	ATGCAGATT	TGTGGATCAA	TATTATTATG	GATGGACCCC	180
CAGCTCAGAG	CCTTGGAGTA	GAACCAAGTG	ATAAAGATGT	CATTCGTAAA	CCTCCTCGCA	240
ACTGGAAAGA	CAGCATTTTG	ACTAAAAACT	TGATACTTAA	AATACTGTT	TCATCAATAA	300
TCATTGTTTG	TGGGACTTTG	TTTGTCTTCT	GGCGTGAGCT	ACGAGACAAT	GTGATTACAC	360
CTCGAG						366

(2) INFORMATION FOR SEQ ID NO:1495:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 258 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1495:

GCTCGAGCGT	TGAGGTCAAC	ACTTCCTCCA	GGGAAAAGGA	TTCCATTAAT	AGATTGAAA	60
AGTATTTTCAT	AGTCTTTCTC	TGTAAGATCC	AGCCTTACTG	GTACAACTCT	CGCACCTGCA	120
GACTCCAAGT	ACTTTACATA	GGACGCAGCA	ATATAGTATC	TTCCATAGTT	TTTCATGACT	180
TTATTACGGC	ATTTTGCAT	TAATATTCCG	ATGATGGGCT	TCTTGGCGGT	GTGCGCGTGG	240
GGTCTAGACT	ATCTCGAG					258

(2) INFORMATION FOR SEQ ID NO:1496:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 437 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1496:

GAATTCGGCT	TCATGGCCTA	CTCTCTTCT	CCATGTTAAA	CCCCTTGGCA	TGAATGAAAG	60
GCTTTCCCT	TTATCCTTGC	TGTGTTTATT	CATTGTGTCC	AATGAGCTTC	TGAAGGTAGG	120
AGTAACTTTG	CACATTTTGC	TGTGTGGGCT	GCTGCATCTC	TGCCAAAAGG	TTTATGGGAT	180
TTTTACTCAG	GAGATCCAGG	AAAAGGAGGA	GCCTGGAATC	TAAGCACTTA	TCTCCTGAAA	240
AGGTACAGAA	ACATGTTGGA	GATCTTGAGC	CTCAAGGTGC	TGCTTCAGA	ATTTTCCTGA	300
TTCTCCCTCT	CCAGACCTAT	TCTGTTCTTG	GGACCCAAGC	TTCTTGGCTC	CAGCCCACTC	360
CCCCACTAGA	GGAGCTGGAA	AGTTTGGTGC	TGTGGTCATA	CCAAAGATGG	GCAACACCCA	420
GACTCCTCAC	CCTCGAG					437

(2) INFORMATION FOR SEQ ID NO:1497:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 516 base pairs
(B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1497:

```
GAATTCGGCC TTCATGGCCT AGTGCAGGTC CTGGTGCTTG ATGGTCGAGG CCATCTCCTG      60
GGCCGCCTGG CGGCCATCGT GGCTAAACAG GTACTGCTGG GCCGGAAGGT GGTGGTCGTA      120
CGCTGTGAAG GCATCAACAT TTCTGGCAAT TTCTACAGAA ACAAGTTGAA GTACCTGGCT      180
TTCCTCCGCA AGCGGATGAA CACCAACCCT TCCCGAGGCC CCTACCACTT CCGGGCCCCC      240
AGCCGCATCT TCTGGCGGAC CGTGCGAGGT ATGCTGCCCC ACAAACCAA GCGAGGCCAG      300
GCCGCTCTGG ACCGTCTCAA GGTGTTTGAC GGCATCCCAC CGCCCTACGA CAAGAAAAAG      360
CGGATGGTGG TTCCTGCTGC CCTCAAGGTC GTGCGTCTGA AGCCTACAAG AAAGTTTGCC      420
TATCTGGGGC GCCTGGCTCA CGAGGTGGC TGAAGTACC AGGCAGTGAC AGCCACCCTG      480
GAGGAGAAGA GGAAAGAGAA AGCCAAGAAC CTCGAG      516
```

(2) INFORMATION FOR SEQ ID NO:1498:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 329 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1498:

```
GCGAGCTCCT GACCTCAGGT GATCTACCCG CCTCAGCCTC CCAAAGTGTT AGGATTACAG      60
GCGTGAGCCA CCGCACCTGG CACCCCCCCC CTTTTTTTTT AATATAAATG ATCAGTCTTA      120
ACTCCTAGG TTATCAGGTT GAGGGGGTGG GGATGAGGCT GGGGGACAGA TTGTTTTCCT      180
GGCTTCTAGC TCGGTGTTCT TTCTGCCTCT GTGCACAACA AGGTATGCGT GTATTGTGGT      240
TGTGGACTGT GGTGTGGAC TGCCTATTCA CAAGTGGCTA TGAGGCCCAT CTGCTGATGC      300
TTTTGGATGC ACTTGCGGAT GAACTCGAG      329
```

(2) INFORMATION FOR SEQ ID NO:1499:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 430 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1499:

```
GAATTCGGCC TTCATGGCCT AGGAGCGCGG TGGCCACGGA ACGCTGCCCC GAGCCGCGCG      60
AGGGAGGACC CGACGCGCGG CGTTTACCCA GCGCAGCGTT CCACCGCTCG GGTTTGGCTG      120
GATAAAATAA AAAATGGGGA TATTGACCTC CTGTCACTAC TGCATGGACT TTGATGGTTT      180
CCAATCATTA CTTTCTCCTC TGTGTCAATC TGCCTCTTCG AGAAATTCAT ACTCCTGAAT      240
AGCTCTCCAG ACCCCCAGCT GGCCATGTGG TGAGTTCAGG GCCCAAATCA AGTAGTACCA      300
GCAATCAGGG AACTCCTATC TGTTTTGAAT GGATTACAC CAGCCACAAG CCTGGAAAGA      360
TGGTGTCAAT ATCTACAGTC AGGCAGGATT CTCCTGTGGA GCCCTGGGAA GGGATCAGCG      420
ATCACTCGAG      430
```

(2) INFORMATION FOR SEQ ID NO:1500:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 375 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1500:

GAATTCGGCC	TTCATGGCCT	AGCCAAGTCT	GGGAAGCCTT	AAGGAAAGGA	GTGCCCCTCG	60
GCGTCTTGGT	CCTCCTGTCC	CTGCTGCAGG	GGCTGGGGCC	TCCGGAGCTG	CTGCGGGCTC	120
CCCTCAGGCT	CTGCTTCGTG	ACCCGTGACC	CATGACCCAC	ACTGCTGGCC	TCCTGTGGGG	180
CCACTATAGC	AGCCACCAGA	AGCCGCGAGG	CCCTCAGGGA	AGCCCAAGGC	CTGCAGAAGC	240
CTCCTGGCCT	GGCTGTGTCT	TCCCCACCCA	GCTCTCCCCT	GCGCCCCTGT	CTTTGTAAAT	300
TGACCCTTCT	GGAGTGGGGG	GCGGCGGGCA	GGGCTGCTTT	TCTTAGTCTG	ATACCAAGCA	360
AGGCCTTTTC	TCGAG					375

What is claimed is:

1. An isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of:

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or a complement of said sequence.

2. An isolated polynucleotide consisting of a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID

NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157, SEQ ID NO:158, SEQ ID NO:159, SEQ ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163, SEQ ID NO:164, SEQ ID NO:165, SEQ ID NO:166, SEQ ID NO:167, SEQ ID NO:168, SEQ ID NO:169, SEQ ID NO:170, SEQ ID NO:171, SEQ ID NO:172, SEQ ID NO:173, SEQ ID NO:174, SEQ ID NO:175, SEQ ID NO:176, SEQ ID NO:177, SEQ ID NO:178, SEQ ID NO:179, SEQ ID NO:180, SEQ ID NO:181, SEQ ID NO:182, SEQ ID NO:183, SEQ ID NO:184, SEQ ID NO:185, SEQ ID NO:186, SEQ ID NO:187, SEQ ID NO:188, SEQ ID NO:189, SEQ ID NO:190, SEQ ID NO:191, SEQ ID NO:192, SEQ ID NO:193, SEQ ID NO:194, SEQ ID NO:195, SEQ ID NO:196, SEQ ID NO:197, SEQ ID NO:198, SEQ ID NO:199, SEQ ID NO:200, SEQ ID NO:201, SEQ ID NO:202, SEQ ID NO:203, SEQ ID NO:204, SEQ ID NO:205, SEQ ID NO:206, SEQ ID NO:207, SEQ ID NO:208, SEQ ID NO:209, SEQ ID NO:210, SEQ ID NO:211, SEQ ID NO:212, SEQ ID NO:213, SEQ ID NO:214, SEQ ID NO:215, SEQ ID NO:216, SEQ ID NO:217, SEQ ID NO:218, SEQ ID NO:219, SEQ ID NO:220, SEQ ID NO:221, SEQ ID NO:222, SEQ ID NO:223, SEQ ID NO:224, SEQ ID NO:225, SEQ ID NO:226, SEQ ID NO:227, SEQ ID NO:228, SEQ ID NO:229, SEQ ID NO:230, SEQ ID NO:231, SEQ ID NO:232, SEQ ID NO:233, SEQ ID NO:234, SEQ ID NO:235, SEQ ID NO:236, SEQ ID NO:237, SEQ ID NO:238, SEQ ID NO:239, SEQ ID NO:240, SEQ ID NO:241, SEQ ID NO:242, SEQ ID NO:243, SEQ ID NO:244, SEQ ID NO:245, SEQ ID NO:246, SEQ ID NO:247, SEQ ID NO:248, SEQ ID NO:249, SEQ ID NO:250, SEQ ID NO:251, SEQ ID NO:252, SEQ ID NO:253, SEQ ID NO:254, SEQ ID NO:255, SEQ ID NO:256, SEQ ID NO:257, SEQ ID

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or a complement of said sequence.

3. An isolated polynucleotide consisting essentially of a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ

ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157, SEQ ID NO:158, SEQ ID NO:159, SEQ ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163, SEQ ID NO:164, SEQ ID NO:165, SEQ ID NO:166, SEQ ID NO:167, SEQ ID NO:168, SEQ ID NO:169, SEQ ID NO:170, SEQ ID NO:171, SEQ ID NO:172, SEQ ID NO:173, SEQ ID NO:174, SEQ ID NO:175, SEQ ID NO:176, SEQ ID NO:177, SEQ ID NO:178, SEQ ID NO:179, SEQ ID NO:180, SEQ ID NO:181, SEQ ID NO:182, SEQ ID NO:183, SEQ ID NO:184, SEQ ID NO:185, SEQ ID NO:186, SEQ ID NO:187, SEQ ID NO:188, SEQ ID NO:189, SEQ ID NO:190, SEQ ID NO:191, SEQ ID NO:192, SEQ ID NO:193, SEQ ID NO:194, SEQ ID NO:195, SEQ ID NO:196, SEQ ID NO:197, SEQ ID NO:198, SEQ ID NO:199, SEQ ID NO:200, SEQ ID NO:201, SEQ ID NO:202, SEQ ID NO:203, SEQ ID NO:204, SEQ ID NO:205, SEQ ID NO:206, SEQ ID NO:207, SEQ ID NO:208, SEQ ID NO:209, SEQ ID NO:210, SEQ ID NO:211, SEQ ID NO:212, SEQ ID NO:213, SEQ ID NO:214, SEQ ID NO:215, SEQ ID NO:216, SEQ ID NO:217,

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or a complement of said sequence.

4. An isolated polynucleotide comprising a nucleotide sequence which hybridizes to a sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ

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or to a complement of said sequence.

5. An isolated protein encoded by an isolated polynucleotide of claim 1.
6. An isolated protein encoded by an isolated polynucleotide of claim 2.
7. An isolated protein encoded by an isolated polynucleotide of claim 3.
8. An isolated protein encoded by an isolated polynucleotide of claim 4.

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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification⁶ : C12N 15/12, 5/10, C07K 14/47, C12Q 1/68, A61K 38/17	A3	(11) International Publication Number: WO 98/45436 (43) International Publication Date: 15 October 1998 (15.10.98)
(21) International Application Number: PCT/US98/06955 (22) International Filing Date: 10 April 1998 (10.04.98) (30) Priority Data: 08/838,821 10 April 1997 (10.04.97) US (71) Applicant: GENETICS INSTITUTE, INC. [US/US]; 87 CambridgePark Drive, Cambridge, MA 02140 (US). (72) Inventors: JACOBS, Kenneth; 151 Beaumont Avenue, Newton, MA 02160 (US). MCCOY, John, M.; 56 Howard Street, Reading, MA 01867 (US). LAVALLIE, Edward, R.; 113 Ann Lee Road, Harvard, MA 01451 (US). RACIE, Lisa, A.; 124 School Street, Acton, MA 01720 (US). MERBERG, David; 2 Orchard Drive, Acton, MA 01720 (US). TREACY, Maurice; 93 Walcott Road, Chestnut Hill, MA 02167 (US). SPAULDING, Vikki; 11 Meadowbank Road, Billerica, MA 01821 (US). AGOSTINO, Michael, J.; 26 Wolcott Avenue, Andover, MA 01810 (US). (74) Agent: SPRUNGER, Suzanne, A.; Genetics Institute, Inc., 87 CambridgePark Drive, Cambridge, MA 02140 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 12 November 1998 (12.11.98)
(54) Title: SECRETED EXPRESSED SEQUENCE TAGS (sESTs) (57) Abstract Secreted expressed sequence tags (sESTs) isolated from a variety of human tissue sources are provided.		

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INTERNATIONAL SEARCH REPORT

International Application No.

P 98/06955

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 C12N15/12 C12N5/10 C07K14/47 C12Q1/68 A61K38/17

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 C12N C07K C12Q A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 97 07198 A (GENETICS INSTITUT) 27 February 1997 see the whole document ---	1-8
A	WO 97 04097 A (GENETICS INST) 6 February 1997 ---	1-8
A	ADAMS M D ET AL: "3,400 NEW EXPRESSED SEQUENCE TAGS IDENTIFY DIVERSITY OF TRANSCRIPTS IN HUMAN BRAIN" NATURE GENETICS, vol. 4, no. 3, July 1993, pages 256-267, XP000611495 see the whole document ---	1-8
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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- "Z" document member of the same patent family

Date of the actual completion of the international search

3 July 1998

Date of mailing of the international search report

30.09.98

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INTERNATIONAL SEARCH REPORT

International Application No.

PCT/US 98/06955

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 536 637 A (JACOBS KENNETH) 16 July 1996 cited in the application see the whole document ---	1-8
A	JACOBS K ET AL: "A NOVEL METHOD FOR ISOLATING EUKARYOTIC CDNA CLONES ENCODING SECRETED PROTEINS" JOURNAL OF CELLULAR BIOCHEMISTRY - SUPPLEMENT, vol. 21A, 10 March 1995, page 19 XP002027246 see abstract ---	1-8
A	WO 90 14432 A (GENETICS INST) 29 November 1990 see the whole document ---	1-8
A	WO 96 17925 A (IMMUNEX CORP) 13 June 1996 see the whole document -----	1-8

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 98/06955

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see further information sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

see further information sheet, subject 1.

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1. Claims: (1-8) partially

An isolated polynucleotide comprising a nucleotide sequence selected from SEQ ID no.1, consisting of a nucleotide sequence selected from SEQ ID no.1, consisting essentially of a nucleotide sequence selected from SEQ ID no.1; an isolated polynucleotide comprising a nucleotide sequence which hybridizes to a sequence consisting of SEQ ID no.1; an isolated protein encoded by said isolated polynucleotides;

Inventions 2 to 1500. Claims: (1-8) partially

Idem as subject 1 but limited to SEQ ID nos.2 to 1500 respectively clone ID nos. BV34 to BK517. (Invention 2 is limited to SEQ ID. no. 2; Invention 3 is limited to SEQ ID no. 3;.....Invention 1500 is limited to SEQ ID no. 1500);

! 'm... on patent family members

PG 98/06955

Form PCT/ISA/210 (patent family annex) (July 1992)

